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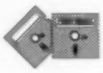

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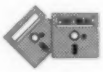

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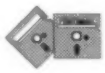

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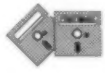

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Also in parentheses at the end of each group of key words will be found the name of the first author, the volume and the first page number of the article. The full published title and co-authors of an article can be found by consulting the relevant entry for the first author in the Author Index. To determine in which section an article has been published, the volume number indicated for an entry should be checked against the Publication Schedule, which can be found in the preliminaries of this Index.

Readers should note that American spelling is used throughout the Subject Index.

Authors of review articles are quoted in the Author Index. BBA reviews published in the special review sections (Biomembranes and Cancer) are not included in the key-word system, but cumulative contents are to be found at the end of the Subject Index. A list of reviews published in the regular sections of BBA is also presented for the convenience of readers; such reviews are included in the key-word system.

The Editors and Publishers welcome any comments on the usefulness of this Index, together with suggestions for improvements.

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Pyrimidine-specific ribonucleases; Homology; Lactoferrin (Devi, A.S. (1205) 275)

Endoglucanase; Site-directed mutagenesis; (*Bacillus*) (Ozaki, K. (1207) 159)

Active site peptide
Acetylcholinesterase; Bromopinacolone; Diisopropyl fluorophosphate; (*E. electricus*); (*T. nobiliana*) (Salih, E. (1208) 324)

Active site structure
Lipoprotein lipase; Pancreatic lipase; Entropy; Substrate specificity; Enzyme kinetics (Wang, C.-S. (1212) 67)

Active transport
Co-transport mechanisms; Substrate binding force; Uncoupled transport; Slippage (Krupka, R.M. (1183) 105)

ATPase; Coupling mechanism; Uncoupled transport; Transport kinetics; Binding force (Krupka, R.M. (1193) 179)

Activin receptor
Transforming growth factor-β, TGF-β; TGF-β superfamily; TGF-β receptor; Signaling; Serine/threonine kinase receptor (Attisano, L. (1222) 71)

Activity
ε-Trypsin; Autolysis; Crystal structure; Electron density map; (Porcine) (Huang, Q. (1209) 77)

Acute intermittent porphyria
5-Aminolevulinic acid; Reactive oxygen species; Single-strand break; DNA damage; Plasmid DNA; Liver-cell carcinoma (Onuki, J. (1225) 259)

Acute myeloid leukemia
Deoxycytidine kinase; Mitochondrion (Wang, L.-M. (1202) 309)

Acute phase protein
AP-1; NFkB; IL-1; IL-6; Zinc; Cadmium; (Human liver); (HepG2 cell) (Daffada, A.A.I. (1222) 234)

Acyclonucleotide
Cyclic phosphate; Molecular structure; Molecular conformation; X-Ray diffraction; NMR; Antiviral activity (Birnbaum, K.B. (1200) 55)

1-Acyl-2 acetyl-*sn*-glycero-3 phosphocholine
LDL peroxidation; Phosphocholine; Atherosclerosis; Oxidative modification (Maziere, C. (1210) 233)

2-Acylamino phospholipid
Pancreatic phospholipase A_2; Competitive inhibition; Lipolysis (Dijkman, R. (1212) 50)

Acylated protein
Fatty acid; Fatty acid synthetase; Purple membrane; Red membrane; (Archaebacterium) (Pugh, E.L. (1196) 38)

Acylcarnitine
Carnitine acyltransferase; Carnitine; Mononuclear phagocyte (Kurth, L. (1201) 321)

Fatty acid oxidation; Hypoketotic hypoglycemia; Cardiomyopathy; Hyperammonemia (Pande, S.V. (1226) 269)

Acyl chain packing
Cardiolipin; Lipid polymorphism; NMR; Small angle X-ray diffraction; Wide angle X-ray diffraction; (*E. coli*) (Killian, J.A. (1189) 225)

Acyl-CoA
Acyl-CoA synthetase; Bile acid:CoA ligase; Bile acid conjugation; Cholate; Sulfhydryl group (Vessey, D.A. (1203) 126)

Acyl-CoA:1-acyl-lysophospholipid acyltransferase
Subcellular fraction; Acyl-CoA hydrolase; Platelet; (Human) (Bakken, A.M. (1214) 180)

Acyl-CoA:cholesterol acyltransferase
Cholesterol; Sphingomyelin; Sphingosine; Lipid transfer; Fibroblast (Härmälä, A.-S. (1210) 97)

Diurnal rhythm; Cholesterol ester; Regulation (Szanto, A. (1214) 39)

Niemann-Pick disease; Lymphoblast; Cholesterol metabolism; LDL receptor; 3-hydroxy-3-methylglutaryl-CoA reductase (Byers, D.M. (1226) 173)

Acyl-CoA:dihydroxyacetonephosphate acyltransferase
Peroxisome; Plasmalogen biosynthesis; Protein purification (Ofman, R. (1206) 27)

Acyl-CoA ester
Protein kinase C activity; Fatty acid; Fibroblast; Fatty acid oxidation defect; (Human) (Nesher, M. (1221) 66)

Acyl-CoA hydrolase
Subcellular fraction; Acyl-CoA:1-acyl-lysophospholipid acyltransferase; Platelet; (Human) (Bakken, A.M. (1214) 180)

Acyl-CoA synthetase
Bile acid:CoA ligase; Bile acid conjugation; Cholate; Acyl-CoA; Sulfhydryl group (Vessey, D.A. (1203) 126)

Phytanic acid; α-Oxidation; Peroxisome; Refsum's disease (Watkins, P.A. (1214) 288)

Ultraviolet spectrophotometry; Alkylthioacrylic acid (Wu, P. (1215) 87)

Acylgramicidin
Acylprotein; Gramicidin; Lipid polymorphism (Vogt, T.C.B. (1193) 55)

Acylhydrolase, lipolytic
Galactolipase; Phospholipase; Cowpea (Sahsah, Y. (1215) 66)

Acylphosphatase
Acylphosphatase active site; Recombinant protein; Site-directed mutagenesis; NMR, ^{1}H-; (Muscle) (Taddei, N. (1208) 75)

Acylphosphatase active site
Acylphosphatase; Recombinant protein; Site-directed mutagenesis; NMR, ^{1}H-; (Muscle) (Taddei, N. (1208) 75)

Acylprotein
Acylgramicidin; Gramicidin; Lipid polymorphism (Vogt, T.C.B. (1193) 55)

Acyl transfer
α-Chymotrypsin; PEG-α-chymotrypsin; Subsite specificity comparison (Čeřovský, V. (1204) 91)

Acyl transfer activity
Phospholipase A_2; Phosphatidylcholine; Golgi appparatus; (Rat liver) (Lawrence, J.B. (1210) 146)

Acyltransferase
Dodecylmaltoside; Preparative isoelectric focusing; Phospholipid metabolism; Membrane protein; Phosphatidylethanolamine; Fatty acid (Chapman, K.D. (1211) 29)

Adaptation
Abdominal radiation; Absorption; Crypt cell production rate; Diabetes; Enterocyte turnover time; Intestinal resection; (Jejunum) (Thomson, A.B.R. (1191) 197)

Continuous culture; Kinetics; Non-equilibrium thermodynamics; Oligotrophy; Sugar analysis; *E. coli* (Senn, H. (1201) 424)

Adduct
Chloroacetaldehyde; Enhancement (Premaratne, S. (1219) 422)

Adenine methyltransferase
Methylation; Plant transformation; Methylase expression (Mitra, A. (1219) 244)

Adenine nucleotide translocase
Fatty acid; Energy coupling; Oxidative phosphorylation; Uncoupling; Decoupling; Cation transport; Thermogenesis (Wojtczak, L. (1183) 41)

Adenine nucleotide translocator
cDNA; Sequence; (*Plasmodium falciparum*) (Dyer, M. (1186) 133)

Adenocarcinoma
Integrin; Extracellular matrix; Arg-Gly-Asp-containing peptide; Phorbol ester; (Colon) (Chiang, H.-S. (1224) 506)

Adenocarcinoma cell line
Lactoferrin; Transferrin; Receptor; (HT29-D4) (Roiron-Lagroux, D. (1224) 441)

Adenosine
NBTI-sensitive nucleoside transport; Nucleoside transport; Kidney; Solubilization; Nitrobenzylthioinosine; Brush-border membrane (Ciruela, F. (1191) 94)

Electropermeabilization; White adipocyte; Brown adipocyte; Lipolysis; Epinephrine; cyclic AMP; (Rat) (Kokkaliari, M. (1221) 315)

Phagocytosis; cyclic AMP; F-actin; Fc receptor; Neutrophil; Calcium (Zalavary, S. (1222) 249)

Adenosine A_2 receptor
Prostanoid IP receptor; Guanine nucleotide binding protein; Desensitization; Protein kinase A; Protein kinase C (Krane, A. (1206) 203)

Adenosine nucleotide translocator
Mitochondrial transcription; mtDNA deletion; Kearns-Sayre syndrome; ATPsynthase (Heddi, A. (1226) 206)

Adenosine receptor A_{2A}
G protein; Guanine nucleotide; Magnesium ion (Mazzoni, M.R. (1220) 76)

Adenosine triphosphate
Patch clamp; Potassium ion channel; Skeletal muscle; Calcium dependent inactivation; (Mouse) (Hehl, S. (1190) 257)

Adriamycin; Chemosensitizing effect; Flow cytometry; (Ovarian carcinoma) (Maymon, R. (1201) 173)

Adenosylcobalamin
Vitamin B_{12} coenzyme; Pyridyl analog of adenosylcobalamin; Diol dehydratase; Diol dehydrase (Toraya, T. (1204) 169)

***S*-Adenosyl-L-methionine**
S-Adenosylmethionine synthetase; Methionine analog; (L1210 cell); (Murine leukemia) (Sufrin, J.R. (1202) 87)

Adenosylmethionine
Methionine adenosyltransferase; Human; Nucleated erythrocyte; Erythroleukemia; Lymphocyte; Methionine (Langkamp-Henken, B. (1201) 397)

***S*-Adenosylmethionine**
Hypoxia; Methionine; Phosphatidylcholine; Liver cirrhosis; Methylation (Chawla, R.K. (1199) 45)

***S*-Adenosylmethionine decarboxylase**
Polyamine; Agmatine; Soybean (Choi, Y.S. (1201) 466)

***S*-Adenosylmethionine synthetase**
S-Adenosyl-L-methionine; Methionine analog; (L1210 cell); (Murine leukemia) (Sufrin, J.R. (1202) 87)

Adenyl cyclase
Arthritis; Metalloprotease; Calcium crystal; Collagen (McCarthy, G.M. (1226) 97)

Adenylate
3-Phosphoglycerate; Triose phosphate; Cell fractionation; Chloroplast; Photosynthetic induction; (Barley leaf) (Gardeström, P. (1183) 327)

Adenylate cyclase
β-Adrenergic receptor; Guanine nucleotide-binding regulatory protein; Partial hepatectomy; Tryptic digestion; (Rat hepatocyte) (Yagami, T. (1222) 81)

β-Adrenergic receptor; Guanine nucleotide binding; Regulatory protein; Sex difference; Hepatectomy, partial; (Rat hepatocyte) (Yagami, T. (1222) 257)

Adenylyl cyclase
Vasoactive intestinal peptide (VIP); VIP receptor; G protein; (Human liver) (Rodríguez-Henche, N. (1221) 193)

Preadipocyte; Androgen; (Rat) (Lacasa, D. (1224) 527)

Vascular smooth muscle; Guanine nucleotide regulatory protein; Hypertension; Membrane; (Milan rat) (Clark, C.J. (1225) 149)

ADF
Thioredoxin; Colon cancer; Leukemia; Thioredoxin reductase; (Liver) (Gasdaska, P.Y. (1218) 292)

Adhesion
Sphingosine; Fibronectin; Fibroblast; Monensin; Integrin, $\alpha_5\beta_1$- (Scita, G. (1223) 29)

Adipocyte
Receptor; Hormone regulation; Adipose tissue; cAMP; Lipolysis (Kaartinen, J.M. (1201) 69)

Bromocryptine; G protein; Lactation; Lipolysis; (Rat) (Moreno, F.J. (1222) 203)

Adipocyte, 3T3-LI
Lipoprotein lipase; Glycosylation; Affinity for heparin; Heparin (Masuno, H. (1212) 125)

Adipose tissue
Receptor; Hormone regulation; Adipocyte; cAMP; Lipolysis (Kaartinen, J.M. (1201) 69)

Glucocorticoid; Receptor; (Rat) (Sjögren, J. (1224) 17)

ADP/ATP carrier
Mitochondrion; Metabolite exchange; Solute carrier; Structure–function (Klingenberg, M. (1187) 241)

ADPglucose
Cauliflower bud; Starch synthesis; Glucose; Glucose 6-phosphate; (*Brassica oleracea* L.) (Batz, O. (1200) 148)

cyclic ADP-ribose
CD38; ADP-ribosyl cyclase; cyclic ADP-ribose hydrolase; cDNA cloning; (Rat islet) (Koguma, T. (1223) 160)

cyclic ADP-ribose hydrolase
CD38; cyclic ADP-ribose; ADP-ribosyl cyclase; cDNA cloning; (Rat islet) (Koguma, T. (1223) 160)

ADP-ribosylation
Glyceraldehyde-3-phosphate dehydrogenase; Sodium nitroprusside; Nitric oxide (Vaidyanathan, V.V. (1203) 36)

GTP-binding protein; Rho protein; C3 exoenzyme; Tissue specificity (Fritz, G. (1222) 331)

ADP-ribosyl cyclase
CD38; cyclic ADP-ribose; cyclic ADP-ribose hydrolase; cDNA cloning; (Rat islet) (Koguma, T. (1223) 160)

Adrenal
Hepatic triacylglycerol lipase; Triacylglycerol lipase; Ovary; Testis; Cushing's disease; (Human); (Rat) (Verhoeven, A.J.M. (1211) 121)

Adrenergic agonist
Glycogen degradation; Glucagon; (Hepatocyte); (Rat) (Tosh, D. (1221) 238)

α-Adrenergic hormone
Cyclosporin A; Glucose metabolism; Antagonist; Fructose 2,6-bisphosphate level; Lymphocyte; (Rat thymus) (Gualberto, A. (1221) 199)

Adrenergic receptor
Hepatocyte; RNA processing; Transcription (Deng, C.-l. (1219) 669)

α_1-Adrenergic receptor
Neonatal cardiac myocyte; Calcium; Inositol 1,4,5-trisphosphate; Cardiac hypertrophy (Hansen, C.A. (1224) 517)

β-Adrenergic receptor
Guanine nucleotide-binding regulatory protein; Adenylate cyclase; Partial hepatectomy; Tryptic digestion; (Rat hepatocyte) (Yagami, T. (1222) 81)

Sialic acid; DNA synthesis; Plasma membrane; Parotid gland; (Mouse) (González Burgos, M.J. (1222) 208)

Guanine nucleotide binding; Regulatory protein; Adenylate cyclase; Sex difference; Hepatectomy, partial; (Rat hepatocyte) (Yagami, T. (1222) 257)

α_1-Adrenoceptor
Response characterization; Hepatic metabolism; Perfused liver; (Rat) (Urcelay, E. (1220) 49)

α / β-Adrenoceptor, cardiac
Neuropeptide Y; ATPase, Na^+/K^+-; ATPase, Ca^{2+}/Mg^{2+}-; Phosphoinositide phospholipase C; Langendorff heart; Cardiac inotropism (Woo, N.D. (1222) 457)

Adrenoleukodystrophy
Peroxisomal proliferator; Plasmalogen; Ethanolamine phosphoglyceride; Phospholipid metabolism; Zellweger syndrome; Clofibrate; (Human fibroblast) (Thorne, P.C. (1214) 161)

Adriamycin
Adenosine triphosphate; Chemosensitizing effect; Flow cytometry; (Ovarian carcinoma) (Maymon, R. (1201) 173)

Adsorption
Melittin; Phospholipid membrane; Leakage; Fusion (Ohki, S. (1194) 223)

Front-face fluorescence; Oil-in-water emulsion; Bovine Serum Albumin; Protein conformation (Castelain, C. (1199) 59)

Phospholipid; Lipid; Cholesterol; SP-A; Calcium; Surface film; Surface pressure; Surface tension; Film stability (Yu, S.-H. (1211) 350)

Adsorption enthalpy
Bilayer membrane; Binding constant; Titration calorimetry; Calcium ion; Lanthanum ion (Lehrmann, R. (1189) 89)

Aequorin
Anoxia; pH; Calcium ion, cytosolic free; LDH; Fructose (Gasbarrini, A. (1220) 277)

Affinity chromatography
Mitochondrion; Dicarboxylate carrier; Purification; Malate dehydrogenase; (Rat liver) (Lançar-Benba, J. (1190) 213)

Affinity chromatography
Maculosin; Host specific toxin; Receptors; Plant disease (Park, S.H. (1199) 13)

Molecular recognition; Estrogen; Antiserum; Cross-reactivity (Podestà, A. (1200) 291)

Myosin light-chain phosphatase; Myosin dephosphorylation; Smooth muscle; Protein purification; Protein characterization; (Turkey gizzard) (Nowak, G. (1203) 230)

Glutathione *S*-transferase; Brassica; Theta class GST; (Broccoli) (Lopez, M.F. (1205) 29)

Dye-ligand chromatography; Progress kinetic curve; (Human liver) (Rashkovetsky, L.G. (1205) 301)

Sucrose transport; Plasmalemma; Plasma membrane; Reconstitution; (Plant); (Sugar beet) (Li, Z.-S. (1219) 389)

S100C; Cytoskeleton; Annexin I; Calcium binding protein; Protein kinase C (Naka, M. (1223) 348)

Antithrombin; Protein conformation; Factor Xa; Protein inhibition; Arginine; Heparin activation (Najjam, S. (1225) 135)

Affinity for heparin
Lipoprotein lipase; Glycosylation; Heparin; Adipocyte, 3T3-LI (Masuno, H. (1212) 125)

Affinity metalloproteinase purification
Tissue inhibitor metalloproteinases-1; Protein structure; CD; FTIR; NMR (Hodges, D.J. (1208) 94)

Aflatoxin B_1
cDNA cloning; CHL cell; CYP3A; Cytochrome *P*-450; Cytotoxicity (Yanagimoto, T. (1201) 405)

Benzo[*a*]pyrene; Primary cultured hepatocyte; Binding protein; (Chicken embryo) (Iwaki, M. (1225) 83)

agaA
Agarase; DNA sequence; *agaB*; (*Vibrio*) (Sugano, Y. (1218) 105)

agaB
Agarase; DNA sequence; *agaA*; (*Vibrio*) (Sugano, Y. (1218) 105)

Agarase
DNA sequence; *agaA*; *agaB*; (*Vibrio*) (Sugano, Y. (1218) 105)

Age
Calcium pump; Intestine; 1,25-Dihydroxyvitamin D; (Rat) (Armbrecht, H.J. (1195) 110)

α_v gene
Vitronectin receptor; Integrin; Promoter; DNA sequence (Donahue, J.P. (1219) 228)

Agglutinin
Lectin; Primary structure; Polypeptide composition; (*B. mildbraedii*) (Chawla, D. (1202) 38)

Aggrecan
Cartilage; Collagen; Development; Proteoglycan; Skeleton; Tenascin; (Mouse) (Glumoff, V. (1219) 613)

Aggregate
Lipase; Screening; Enzyme purification; Thermophilic; (*B. thermocatenulatus*) (Schmidt-Dannert, C. (1214) 43)

Aggregation
Porphyrin; Chlorin; Pheophytin *a* epimer; NMR, ^{1}H-; Photosensitization (Hynninen, P.H. (1183) 374)

Photosynthesis; Chlorophyll; Micelle; Self-organization; Detergent action (Gottstein, J. (1183) 413)

Light harvesting complex II; Carotenoid; Absorbance-detected magnetic resonance; Triplet transfer; (Spinach) (Van der Vos, R. (1188) 243)

Platelet; Hepoxilin A_3; Shear stress; (Human) (Margalit, A. (1190) 173)

Hydrostatic pressure; Shear stress; (Erythrocyte) (Chen, S. (1192) 247)

Cationic lipid; Oligonucleotide; Particle size; Calcein leakage; Fusion (Jääskeläinen, I. (1195) 115)

Mastoparan X; Lipid membrane; Alpha-helical peptide; Amphiphilic helix; Orientation (Fujita, K. (1195) 157)

α-Crystallin; Surfactant; Chaperone (Carver, J.A. (1204) 195)

Macrophage; Oxidized LDL; Fluorescent product; Schiff base (Maeba, R. (1215) 79)

Platelet exocytosis; Protein kinase C; Tumor promoter; (Platelet cell); (Human) (Hashimoto, Y. (1222) 56)

Phencyclidine; Platelet; Epinephrine; NMDA receptor (Raulli, R.E. (1224) 175)

Aggregation inhibition
Clausine-D; Platelet; Thromboxane A_2 (Wu, C.-C. (1201) 1)

Aging
Maillard reaction; Glycation; Immunoelectron microscopy; Basement membrane; Eye (Marion, M.S. (1191) 33)

Langmuir-Blodgett-Kuhn monolayer; Phase separation; Lipid monolayer; Calcium ion; EELS; Electron microscopy (Lieser, G. (1192) 14)

Phosphoinositide; Alzheimer's disease (Bothmer, J. (1225) 111)

Mitochondrial respiration; Respiratory chain; Cytochrome c oxidase; NADH-ubiquinone oxidoreductase; Cytochrome (Boffoli, D. (1226) 73)

Human platelet; Glutathione peroxidase (Rey, C. (1226) 219)

Agmatine
S-Adenosylmethionine decarboxylase; Polyamine; Soybean (Choi, Y.S. (1201) 466)

Papain; Irreversible proteinase inhibitor; Complex; X-ray analysis; Substrate specificity (Matsumoto, K. (1208) 268)

Agonist
Glycopeptide; Conformation; T-cell activity; Epitope; Antagonist (Otvos Jr., L. (1224) 68)

Air/water interface
Triacylglucolipid; Membrane; (*A. laidlawii*) (Demel, R. (1190) 416)

Ajoene
Allicin; Alliin; Cholesterol biosynthesis; Hepatocyte culture; HepG2 cell (Gebhardt, R. (1213) 57)

AKAP
cyclic AMP; Protein kinase A; A kinase anchor protein; Kinase anchor protein (Rubin, C.S. (1224) 467)

A kinase anchor protein
cyclic AMP; Protein kinase A; AKAP; Kinase anchor protein (Rubin, C.S. (1224) 467)

Alamethicin
Magainin; Lipid bilayer; Protein–lipid interaction; Cytolysis (Ludtke, S.J. (1190) 181)

Alanine
Amino acid excretion; Recombinant strain; (*Z. mobilis*) (Ruhrmann, J. (1196) 14)

Alanine aminotransferase
Aspartate aminotransferase; Regulation; Vitamin B-6 derivative; Aminothiol (Pagani, R. (1204) 250)

β-Alanine
Taurine; Sodium ion dependent uptake; Anion dependence; Stoichiometry; Proximal tubule; (Human); (Kidney cell) (Jessen, H. (1194) 44)

Albumin
Alpha fetoprotein; Antiestrogen; Estradiol; Protein purification; Antiuterotrophic activity (Allen, S.H.G. (1202) 135)

Nagase analbuminemic rat; Hypertriglyceridemia; Hypercholesterolemia; Triacylglycerol synthesis; VLDL; Plasma lipoprotein composition; Dextran (Catanozzi, S. (1212) 103)

Long-chain fatty acid; Fatty acid transport; Binding constant; Membrane (Rose, H. (1215) 321)

Albumin binding of warfarin
Warfarin; Phenprocoumon; Warfarin binding affinity; Warfarin binding site (Vorum, H. (1205) 178)

Alcohol
Protein–lipid interaction; Phospholipid unsaturation; Membrane perturbation; Fluorescence lifetime; DPH (Ho, C. (1193) 307)

ATPase, Ca^{2+}-; Calcium ion transport; Ethanol; Calmodulin; Erythrocyte; (Human) (Benaim, G. (1195) 141)

Stratum corneum; Percutaneous absorption; Polar compound (Goates, C.Y. (1195) 169)

Stress response; Heat-shock protein; Fatty acid; (*Drosophila*) (Munks, R.J.L. (1223) 23)

Alcohol dehydrogenase
Lignification; Molecular modeling; Dehydrogenase; Sequence homology; Structural model (McKie, J.H. (1202) 61)

Aldehyde dehydrogenase; (*B. stearothermophilus*) (Robinson, G.A. (1218) 432)

Alcohol, ethyl
Phosphatidate phosphohydrolase; Fatty acid; (Liver) (Day, C.P. (1215) 33)

Aldehyde dehydrogenase
DNA sequence; Promoter sequence; (Rat) (Shaw, P.M. (1218) 242)

Alcohol dehydrogenase; (*B. stearothermophilus*) (Robinson, G.A. (1218) 432)

Aldehyde reductase
Aldose reductase; Kidney protein; Kinetics; Immunochemistry; Hyperosmotic stress; (Human); (Kidney) (Robinson, B. (1203) 260)

Aldimine, internal and external
Serine hydroxymethyltransferase; Serine interaction; Thermal stability (Bhaskar, B. (1209) 40)

Aldolase
Thymocyte; Glyceraldehyde-3-phosphate dehydrogenase; Hexokinase; Pyruvate kinase; Cell cycle (Netzker, R. (1224) 371)

Aldolase B
cDNA sequence; Mesonephros; (Sheep) (Gianquinto, L. (1219) 223)

Aldolase B gene
C/EBP; DNA-binding protein; Liver-specific transcription; (Rat) (Yabuki, T. (1216) 15)

Aldol condensation
Enzyme kinetics; Enzyme purification; HMG-CoA; Isoprenoid biosynthesis; Radical formation; (Radish); (Maize) (Weber, T. (1211) 85)

Aldose reductase
Aldehyde reductase; Kidney protein; Kinetics; Immunochemistry; Hyperosmotic stress; (Human); (Kidney) (Robinson, B. (1203) 260)

Human placenta; Circular dichroism; Isotope effect (Bhatnagar, A. (1205) 207)

Sorbitol synthesis; Glutathione; Diabetes; (Rat); (IMCD cell) (Grunewald, R.W. (1225) 39)

Polyol pathway; Sorbitol dehydrogenase; Diabetic complication; (Diabetic rat) (Kicic, E. (1226) 213)

Aldosterone
Amiloride sensitivity; Sodium ion channel; Protein trafficking; Insulin; Forskolin; Protein synthesis (Coupaye-Gerard, B. (1190) 449)

Aldosterone synthesis
Cytochrome $P\text{-}450_{11\beta}$; Liposome; Detergent effect; Cytochrome $P\text{-}450_{scc}$ (Kominami, S. (1192) 234)

Algorithm
Surface tension; Area calculation; Volume calculation; Captive bubble method (Schoel, W.M. (1200) 281)

Protein structure; Helix; Homology; Molecular mimicry (Bositis, C.M. (1204) 181)

Alkali cation transport kinetics
Cryptand; Competitive transport selectivity; Temperature; Lipid membrane (Mulliert, G. (1193) 263)

Alkaline-induced ion-selective activity
Single-channel activity; Mitochondrial channel; Mitochondrial inner membrane; Permeability; Patch clamp; (Mitoplast) (Antonenko, Yu.N. (1194) 247)

Alkaline phosphatase
Trophoblast; Microvillous membrane; Basal membrane; (Human placenta) (Eaton, B.M. (1193) 85)

Allosteric modulation; ATPase; Enzyme kinetics (Pizauro, J.M. (1202) 22)

Zinc-protein; Ptolemeic mummy; Archaeological biochemistry (Weser, U. (1208) 186)

Isozyme; (Human brain) (Nishihara, Y. (1209) 274)

Monoclonal antibody; Placental alkaline phosphatase; Intestinal alkaline phosphatase (Kodama, H. (1218) 163)

Alkaline sucrose density gradient centrifugation
Butylphenyldeoxyguanosine (BuPGdR); Aphidicolin; DNA repair; DNA polymerase; Ultraviolet; (Human fibroblast) (Yamada, K. (1219) 302)

Alkaline transition
Redox potential; Stability; Electron transfer; Cytochrome c_2 (Caffrey, M.S. (1187) 277)

Alkalophilicity
Maltobionate α-D-glucohydrolase; Substrate specificity; (*Bacillus* sp. N-1053) (Shirokane, Y. (1207) 143)

Alkalothermophilicity
Chemical modification; Xylanase; Essential carboxyl group; Carboxyl group; (*Bacillus sp.*) (Chauthaiwale, J. (1204) 164)

Alkane monooxygenase
Detergent; Solubilization; Recombinant *E. coli*; Overexpression (Peters, J. (1196) 145)

Alkanoylcholine
Butyrylcholinesterase; Hydrolysis; Enzyme kinetics; Enzyme inhibition (Chelminska-Bertilsson, M. (1202) 56)

Alkenylacylglycerophosphoethanolamine
Phospholipase A_2; Phospholipase A_2, type II; Docosahexaenoic acid; Arachidonic acid; Eicosapentaenoic acid; (Rabbit) (Shikano, M. (1212) 211)

Alkylacylglycerol
Phospholipase D; Phospholipase C; Phosphatidic acid; Diacylglycerol; Acrosome reaction; (Spermatozoon) (Roldan, E.R.S. (1210) 48)

Alkylphosphocholine
Phospholipid analog; Madin-Darby kidney cell; Metabolism; Uptake; (Canine) (Geilen, C.C. (1211) 14)

Alkylthioacrylic acid
Acyl-CoA synthetase; Ultraviolet spectrophotometry (Wu, P. (1215) 87)

Allele-specific amplification
Mutation; Genetics; Thyrotropin receptor; Graves' disease; Autoimmunity (Bohr, U.R.M. (1216) 504)

Allene oxide synthase
Fatty acid; α-Linolenic acid; γ-Linolenic acid; Reaction mechanism; (Flax seeds) (Grechkin, A.N. (1213) 199)

Allergen
IgE-binding determinant; Venom; Identification; (*M. pilosula*) (Donovan, G.R. (1204) 48)

Allergen challenge
Active sensitization; Icosanoid; Membrane phospholipid; Serum; Alveolar macrophage; (Guinea-pig) (M'Rini, C. (1213) 46)

Allergy
Bet v I; Microbial pathogen; Pollen; Pathogenesis-related protein; (*Betula*) (Swoboda, I. (1219) 457)

Glutathione *S*-transferase; IgE antibody; (*D. pteronyssinus*) (O'Neill, G.M. (1219) 521)

Allicin
Alliin; Ajoene; Cholesterol biosynthesis; Hepatocyte culture; HepG2 cell (Gebhardt, R. (1213) 57)

Alliin
Allicin; Ajoene; Cholesterol biosynthesis; Hepatocyte culture; HepG2 cell (Gebhardt, R. (1213) 57)

Allophycocyanin
Excitation energy transfer; Femtosecond spectroscopy; Anisotropy; Photosynthesis (Sharkov, A.V. (1188) 349)

Allosteric binding
Chorismate mutase; (*S. cerevisiae*) (Ramilo, C. (1203) 71)

Allosteric conformation
Insulin; Excipient; NMR, ^{1}H-; Amide exchange (Hardaway, L.A. (1208) 101)

Allosteric effect
Insulin; Phosphorylase inactivation; Glucose 6-phosphate; Phosphorylase kinase; Inhibition (Villar-Palasi, C. (1224) 384)

Allosteric modulation
Alkaline phosphatase; ATPase; Enzyme kinetics (Pizauro, J.M. (1202) 22)

Allostery
Pyrimidine biosynthesis; Multifunctional polypeptide; Plant metabolism (Bartlett, T.J. (1207) 187)

Alloxan
Calcium; Diabetes mellitus; Hydrogen peroxide; Verapamil (Kim, H.-R. (1227) 87)

***S*-Allylmercaptocysteine**
Cell proliferation; Inhibitor; Thioallyl compound; Smooth muscle cell; Endothelial cell (Lee, E.S. (1221) 73)

Alpha-helical peptide
Mastoparan X; Lipid membrane; Aggregation; Amphiphilic helix; Orientation (Fujita, K. (1195) 157)

Alpha helix
Poly(L-lysine); Beta structure; Structure transition; Phosphatidic acid vesicle; Stopped-flow circular dichroism; Circular dichroism (Fukushima, K. (1191) 133)

Tryptophan fluorescence; Time-resolved fluorescence; Fluorescence quenching; Lyme disease; Outer surface protein A (France, L.L. (1202) 287)

Alphaxalone
Small-angle X-ray diffraction; X-ray diffraction, small-angle; DSC; Drug-membrane interaction; Steroid; Δ^{16}-Alphaxalone (Mavromoustakos, T. (1194) 69)

Δ^{16}-Alphaxalone
Small-angle X-ray diffraction; X-ray diffraction, small-angle; DSC; Drug-membrane interaction; Steroid; Alphaxalone (Mavromoustakos, T. (1194) 69)

Alternate cleavage site
Mitochondrial processing peptidase; X-Pro bond; N-terminal sequencing; E1β and E2 subunit; (Human) (Wynn, R.M. (1201) 125)

Alternating site
Chloroplast coupling factor; ATPase, Ca^{2+}-; Unisite catalysis; Cooperativity; Data simulation (Andralojc, P.J. (1184) 54)

Alternative gene splicing
Calcium/phospholipid binding protein; Annexin VI isoform (Kaetzel, M.A. (1223) 368)

Alternative oxidase
Mitochondrion; Respiration; Oxidative phosphorylation; Ubiquinone; (Plant) (Moore, A.L. (1187) 145)

Cyanide-resistant respiration; Oxygen dependence; Ubiquinone pool (Q-pool); Electron transfer (Ribas-Carbo, M. (1188) 205)

Alternative pathway
Mitochondrion; Quinone; Cytochrome *b*; Electron flux; Respiratory chain; (*C. parapsilosis*) (Guerin, M.G. (1184) 111)

Alternative promoter usage
Calcineurin B; Isoform; Testis-specific regulation; cDNA cloning (Chang, C.-D. (1217) 174)

Alternative respiratory chain
Mitochondrion; Calcium ion transport; Heavy metal ion; (*Euglena*) (Uribe, A. (1186) 107)

Alternative splicing
cDNA; Amyloid protein; Sequence comparison; Alzheimer's disease; Enzyme inhibition; (Rat) (Sandbrink, R. (1219) 167)

Amelogenin; cDNA; Sequence; (Rat) (Bonass, W.A. (1219) 690)

CSF, M-; mRNA; PCR; RT-PCR; Interferon γ; (Human) (Ohtsuki, T. (1222) 141)

GM-CSF receptor; DNA sequence; Isoform (Hu, X. (1223) 306)

Branched-chain α-keto acid dehydrogenase; Maple syrup urine disease; Exon skipping (Hayashida, Y. (1225) 317)

Alternative splicing form
Calcium ion/calmodulin-dependent protein kinase II; Maternal expression; *(Drosophila)* (Takamatsu, Y. (1220) 188)

Alveolar epithelium
Vitamin D; Type II cell; Proliferation; PDGF (Edelson, J.D. (1221) 159)

Amiloride; Sodium transport; Sodium channel; (Fetal guinea pig lung) (Fyfe, G.K. (1224) 355)

Alveolar macrophage
Active sensitization; Icosanoid; Membrane phospholipid; Allergen challenge; Serum; (Guinea-pig) (M'Rini, C. (1213) 46)

Surfactant protein; Peritoneal macrophage; Phospholipid uptake; (Rat) (Sane, A.C. (1213) 107)

Angiotensin converting enzyme; Peripheral blood monocyte; Colony-stimulating factor; Polymerase chain reaction (Lazarus, D.S. (1226) 12)

Alzheimer's disease
Serine proteinase; Precursor; Brain; (Human) (Dihanich, M. (1218) 225)

cDNA; Amyloid protein; Alternative splicing; Sequence comparison; Enzyme inhibition; (Rat) (Sandbrink, R. (1219) 167)

Calcium binding protein (Föhr, U.G. (1223) 391)

S100β; Glial activation; ELISA; Cytokine; Immunohistochemistry (Van Eldik, L.J. (1223) 398)

Phosphoinositide; Aging (Bothmer, J. (1225) 111)

β-Amyloid; Phosphoinositide; Phospholipase C (Wallace, M.A. (1227) 183)

Amelogenin
cDNA; Alternative splicing; Sequence; (Rat) (Bonass, W.A. (1219) 690)

Amidase
Urea binding; Mutation; Acetanilidase; (*P. aeruginosa*) (Tata, R. (1205) 139)

Amide exchange
Insulin; Excipient; NMR, ^{1}H-; Allosteric conformation (Hardaway, L.A. (1208) 101)

Amidine
FTIR; Trypsin; Calcium; Electrostatic interaction (Buono, R.A. (1204) 124)

Amidolytic activity
Recombinant apo(a); LDL; Reconstituted lipoprotein(a); Enzyme activation; Proteolytic activity (Pursiainen, M. (1215) 170)

Amiloride
Sodium ion coupled transport; Endothelial cell; Amino acid analog; Ouabain (Lau, Y.-T. (1194) 118)

pH, intracellular; Ethylisopropyl amiloride; Antisense oligonucleotide; NHE-1 (Kuwahara, M. (1220) 132)

Alveolar epithelium; Sodium transport; Sodium channel; (Fetal guinea pig lung) (Fyfe, G.K. (1224) 355)

Amiloride sensitivity
Sodium ion channel; Protein trafficking; Insulin; Aldosterone; Forskolin; Protein synthesis (Coupaye-Gerard, B. (1190) 449)

Amino acid
Regulatory volume decrease; Biological transport; Glutamine; Cell volume; (Fibroblast); (Human) (Dall'Asta, V. (1220) 139)

D-Amino acid
Flavoprotein; D-Aspartate oxidase; (*O. vulgaris*) (Tedeschi, G. (1207) 217)

Amino acid analog
Sodium ion coupled transport; Endothelial cell; Ouabain; Amiloride (Lau, Y.-T. (1194) 118)

Amino acid analysis
Apolipoprotein A-I; Isoprotein; Proapolipoprotein A-I (Saku, K. (1217) 29)

Amino acid composition
Proteoglycan; Proteoglycan characterization; Extraction; Chromatography; (Bovine muscle) (Eggen, K.H. (1204) 287)

Amino acid deprivation
Heat stress; HSP 70; GRP 75; Phenylalanine; Phenylketonuria (Plakidou-Dymock, S. (1224) 189)

Amino acid excretion
Alanine; Recombinant strain; (*Z. mobilis*) (Ruhrmann, J. (1196) 14)

Amino acid homology
Mast cell growth factor; Kit ligand; Steel factor; Nucleotide sequence; cDNA cloning; (Cow) (Zhou, J.-H. (1223) 148)

Amino acid mutation
Light-harvesting complex; Electrochromic behavior; Carotenoid absorbance; Bacteriochlorophyll; B800; Site directed mutant; (*Rb. sphaeroides*) (Crielaard, W. (1183) 473)

Amino acid residue, acidic
Sphingomyelinase; Chemical modification; Homologous sequence; Sequence analysis; (*B. cereus*) (Tomita, M. (1203) 85)

Amino acid sequence
β-Glucosidase; Cellobiase; Seed germination; Seed maturation; (*Hordeum vulgare*) (Simos, G. (1199) 52)

Lysyl oxidase; Enzyme model; Protein structure; cDNA cloning (Krebs, C.J. (1202) 7)

α-Amylase; *AMY2B* gene; (Human) (Omichi, K. (1203) 224)

Collagen type V; Bone; Skin; Propeptide (Niyibizi, C. (1203) 304)

Eglin; Potato inhibitor I; Trypsin inhibitor; Subtilisin inhibitor; (*A. caudatus*) (Hejgaard, J. (1204) 68)

Serine hydroxymethyltransferase; Cytosol; Evolutionary relationship; (Sheep liver) (Usha, R. (1204) 75)

Glutathione *S*-transferase; Subunit; 4-Hydroxy-2-nonenal; (Human) (Singhal, S.S. (1204) 279)

Hageman factor; cDNA; Bovine molecule; (Human); (Guinea pig) (Shibuya, Y. (1206) 63)

Transferrin; Glycan; Endoglycosidase; Electrospray mass spectrometry; (Porcine) (Sharma, N.D. (1206) 286)

Cefuroxime-hydrolyzing β-lactamase; Cefotaxime-hydrolyzing β-lactamase; Clavulanic acid; Class A β-lactamase; (*P. vulgaris*) (Péduzzi, J. (1207) 31)

Myoglobin; Dimer; Amino terminal acetylated protein; (*Buccinum undatum* L.) (Wen, D. (1208) 263)

Ferredoxin; NMR, ^{1}H-; MCD; (*D. africanus*) (Davy, S.L. (1209) 33)

AMP deaminase; Limited proteolysis; Regulatory domain; (Rabbit skeletal muscle) (Ronca, F. (1209) 123)

cDNA; CDEI binding protein; Sequence comparison; (Mouse) (Hanes, J. (1216) 154)

Nucleotide sequence; Gluthatione *S*-transferase; Clone; (Chicken liver) (Liu, L.-F. (1216) 332)

Collagen; Propeptide; Nucleotide sequence; (Mouse) (Fenton, S.P. (1216) 469)

Ribosomal protein; L4; cDNA sequence; (Human) (Bagni, C. (1216) 475)

cDNA; Hemoglobin; Linker chain L2; Exon/intron boundary; (*N. diversicolor*) (Suzuki, T. (1217) 291)

Ribosomal protein S4; Transcription; Tissue specificity; (Potato) (Braun, H.-P. (1218) 435)

Flagellar hook; Complementation; *flgD* gene; Nucleotide sequence; (*S. typhimurium*) (Kutsukake, K. (1218) 443)

Acetylcholinesterase; Catalytic subunit; Cloning; cDNA; (Chicken) (Randall, W.R. (1218) 453)

Nucleotide sequence; Murine Hox-D3; Gene expression (Brown, W.M. (1219) 219)

CTP:phosphocholine cytidyltransferase; cDNA expression; Polymerase chain reaction; (Erythroleukemia cell); (Human) (Kalmar, G.B. (1219) 328)

Nucleotide sequence; Peptidyl-prolyl *cis-trans* isomerase; Cyclophilin A; Protein folding; (*Arabidopsis*) (Hayman, G.T. (1219) 536)

Glutamate receptor; AMPA; Kainate; cDNA sequence; RNA splicing; (Human) (Rampersad, V. (1219) 563)

Larval glue protein gene; DNA sequence; (*Drosophila virilis*); (*Drosophila melanogaster*) (Lanio, W. (1219) 576)

Protein phosphatase; cDNA sequence; mRNA alternative splicing; Chromosomal localization; (Human) (Barker, H.M. (1220) 212)

N-Methyl-D-aspartate receptor; NMDA receptor; NR2A; cDNA sequence; (Human) (Foldes, R.L. (1223) 155)

Serum albumin; Genetic variant; Isoelectric focusing; DNA sequence; Point mutation; (Human) (Galliano, M. (1225) 27)

Pyruvate carboxylase; Mitochondrial enzyme; cDNA cloning; Nucleotide sequence; Biotin (Wexler, I.D. (1227) 46)

Amino acid sequence comparison
Cytochrome c_3; Polyhemic cytochrome *c*; Protein sequence; Sulfate-reducing bacterium (Bruschi, M. (1205) 123)

Amino acid sequencing
Hemerythrin; (*L. reevii*) (Negri, A. (1208) 277)

Amino acid structural repeat
Zinc finger; cDNA sequence; RNA homopolymer; (*X. laevis*) (Klocke, B. (1217) 81)

Amino acid substitution
Cobalamin; Transcobalamin II; Polymorphism; Arginine; (Caco-2 cell); (Fibroblast) (Li, N. (1219) 515)

Amino acid sythesis
Expression; Polymerase chain reaction; (*E. coli*); (Mouse); (3T3 cell) (Saqib, K.M. (1219) 398)

Amino acid transport
Coryneform bacterium; Metabolite secretion; Membrane transport; Bacterium (Krämer, R. (1187) 245)

Brush-border membrane; Obesity; (Rat) (Sanchís, D. (1192) 159)

Potassium; (Yeast) (Rosas, G. (1195) 223)

System A; Liver; Euglycemic hyperinsulinemic clamp (Ferrer-Martínez, A. (1222) 63)

Amino acid transporter
Oocyte; Expression; C6-BU-1 cell; Astroglial cell (Bröer, S. (1192) 95)

Aminoacyl-tRNA synthetase
Multienzyme complex; (*Drosophila*) (Kerjan, P. (1199) 293)

Mononucleotide binding fold; HIGH sequence; Kinetics; Overexpression; Mutagenesis (Chan, K.W. (1205) 223)

***p*-Aminobenzoic acid**
Peripheral blood; Mononuclear leukocyte; Arachidonic acid; *p*-Acetamidobenzoic acid (Barbieri, B. (1214) 309)

4-Aminobutyrate aminotransferase
Enzyme kinetic; Protein unfolding; Circular dichroism; Fluorescence anisotropy (Pineda, T. (1207) 173)

Amino group
Anticholinesterase toxin; Fasciculin; Modification; (Green mamba) (Červeňanský, C. (1199) 1)

p-Aminohippurate
Renal transport; Organic anion; Potential-sensitive transport; Anion exchanger; Chemical modification (Takano, M. (1192) 190)

α-Aminoisobutyric acid transport
Sodium ion dependent uptake; Proton dependent influx; Proximal tubule; (Human kidney cells) (Jessen, H. (1190) 279)

5-Aminolevulinic acid
Mitochondrial damage; Reactive oxygen species; Calcium ion; Protein oxidation (Vercesi, A.E. (1188) 86)

Reactive oxygen species; Single-strand break; DNA damage; Plasmid DNA; Acute intermittent porphyria; Liver-cell carcinoma (Onuki, J. (1225) 259)

5-Aminolevulinic acid synthase
Erythroblast; Haem; Iron; Ferrochelatase; Regulation (Houston, T. (1201) 85)

Aminopeptidase
Enzyme inhibition; Diacylhydroxamate; Hydroxamate (Demuth, H.-U. (1202) 265)

Purification; Characterization; Metalloenzyme; Apoenzyme reactivation; Deglycosylation; (*Thunnus albacares*) (Hajjou, M. (1204) 1)

Natural killer cell; Cytotoxicity; Ectoenzyme; Immunology; Tumor associated antigen (Amoscato, A.A. (1221) 221)

Aminopeptidase P
GPI-anchored enzyme; Membrane enzyme; Glycosylphosphatidyl inositol; Brush-border membrane; (Rat intestine) (Koelsch, R. (1190) 170)

Aminophospholipid translocase
Phospholipid; Asymmetry; Spermatozoon; Fluidity; (Trout) (Müller, K. (1192) 21)

Flip-flop; Phospholipid; NBD-phospholipid; Phosphatidylserine; Membrane asymmetry (Smeets, E.F. (1195) 281)

Aminophospholipid translocator
Phosphatidylserine stereochemistry; Erythrocyte morphology (Hall, M.P. (1190) 243)

Aminoquinoline
Lipopolysaccharide; Lipid A; Fluorescence; NMR; Phenothiazine; Biguanide; Pentamidine; Endotoxin-antagonism (David, S.A. (1212) 167)

Amino terminal
Pancreatic lipase; Interfacial activation; Peptide sequence (Mejdoub, H. (1213) 119)

Amino terminal acetylated protein
Myoglobin; Amino acid sequence; Dimer; (*Buccinum undatum* L.) (Wen, D. (1208) 263)

Amino-terminal extension
Recombinant human EGF; Mass spectrometric analysis; DNA-synthesis induction (Svoboda, M. (1206) 35)

Aminothiol
Alanine aminotransferase; Aspartate aminotransferase; Regulation; Vitamin B-6 derivative (Pagani, R. (1204) 250)

Protein kinase C; 2′,7′-Dichlorofluorescin; Proliferation; Peroxidase; (Human); (T cell) (Jeitner, T.M. (1223) 15)

Aminotriazole
Peroxisome; Cholesterol; Cholestyramine; Gemfibrozil; Intermediate (Hashimoto, F. (1214) 11)

Ammonia
Lobule; Pericentral; Periportal; Zonation (Wagenaar, G.T.M. (1200) 265)

Ammonium chloride pulse
Cardiomyocyte; Magnesium ion, intracellular; Calcium ion, intracellular; pH, intracellular; Fluorescence; Carbon dioxide/bicarbonate solution; Metabolic inhibition; (Rat) (Li, H.-y. (1222) 164)

Amniotic fluid
Pulmonary surfactant protein; SP-A; SP-D; Fetal membrane; Preterm labour; Chorioamniotic; (Human) (Miyamura, K. (1210) 303)

Amniotic fluid protein
Gelatinase; Type IV collagenase; (Human) (Lehtovirta, J. (1206) 83)

Amoebocyte
Factor C; Protein purification; Protein characterization; (*C. rotundicauda*) (Ding, J.L. (1202) 149)

AMP deaminase
Limited proteolysis; Amino acid sequence; Regulatory domain; (Rabbit skeletal muscle) (Ronca, F. (1209) 123)

AMP-dependent kinase
Glucose 6-phosphate; Glycogen synthase; Insulin (Villar-Palasi, C. (1207) 88)

cyclic AMP
Insulin; Insulin receptor; Glucose transport; Phosphodiesterase; OPC 3911; Obesity; (Rat adipocyte) (Eriksson, J.W. (1189) 163)

Phosphate transport; Hepatocyte; Phorbol ester; Fructose metabolism (Younus, M.J. (1190) 444)

Sodium ion efflux; Zinc; Microinjection; Forskolin; Barnacle fiber (Xie, H. (1195) 51)

Chloride channel; FITC-dextran; T84 cell; 9HTEo$^-$ cell; Endosome; CFTR (Santos, G.F. (1195) 96)

Platelets; Small G-proteins; rap1B; Cytoskeleton; Concanavalin A (Ramaschi, G. (1199) 20)

Receptor; Hormone regulation; Adipocyte; Adipose tissue; Lipolysis (Kaartinen, J.M. (1201) 69)

Surfactant lipid; Fatty acid synthetase; Human fetal lung; Glucocorticoid; Fatty acid synthesis (Gonzales, L.W. (1215) 49)

β-Galactosidase; Operon expression; (*E. coli*) (Lim, C.-J. (1218) 250)

Erythrocyte; Magnesium ion, intracellular; NMR, ^{31}P-; (Human) (Matsuura, T. (1220) 31)

Neuroparsin; 5-Hydroxytryptamine; Calcium ion, cytosolic free; Protein kinase C; cyclic GMP; (Rectal cell); (African locust) (Fournier, B. (1220) 181)

Parathyroid hormone-related protein; Second messenger pathway; Protein kinase C; (Human lung) (Emly, J.F. (1220) 193)

Electropermeabilization; White adipocyte; Brown adipocyte; Lipolysis; Epinephrine; Adenosine; (Rat) (Kokkaliari, M. (1221) 315)

Cholecystokinin; Protein kinase C; Calcium ion; Bombesin (Chang, C.H. (1221) 339)

Glycosphingolipid; Glycosylceramide; Glioma; Differentiation; dibutyryl cyclic AMP (Hoffman, L.M. (1222) 37)

Retinoic acid; Retinoic acid nuclear receptor; G protein; Protein kinase A; Teratocarcinoma differentiation; (Human) (Kurie, J.M. (1222) 88)

Adenosine; Phagocytosis; F-actin; Fc receptor; Neutrophil; Calcium (Zalavary, S. (1222) 249)

Fibronectin; Actin; Gene expression; (Adipocyte); (Mouse) (Antras-Ferry, J. (1222) 390)

cyclic AMP-dependent protein kinase; Protein kinase; Phosphorylation; RIβ; (Testis) (DeManno, D.A. (1222) 501)

Parathyroid hormone; Parathyroid hormone-related protein; Inositol phosphate; Pulmonary surfactant; Lung development; (Rat) (Rubin, L.P. (1223) 91)

Parathyroid hormone; Sodium/phosphate cotransport; Calcium ion, intracellular concentration; Protein kinase A; Protein kinase C; Myelin basic kinase; (Kidney cell); (Opossum) (Quamme, G. (1223) 107)

PAF; Prostaglandin E_2; Autocrine; Inositol 1,4,5-trisphosphate; Macrophage (Asmis, R. (1224) 295)

Protein kinase A; A kinase anchor protein; AKAP; Kinase anchor protein (Rubin, C.S. (1224) 467)

NADH oxidase; Growth; Plasma membrane; (Porcine liver) (Morré, D.J. (1224) 566)

cyclic AMP accumulation
Cholera toxin hybrid; Multivalent binding; Toxin–cell interaction; (Penetration of A subunit) (De Wolf, M.J.S. (1223) 296)

cyclic AMP-dependent protein kinase
CTP:phosphocholine cytidylyltransferase (EC 2.7.7.15); Fetal type II cell; Pulmonary surfactant; Lung; (Rat) (Zimmermann, L.J. (1211) 44)

Protein kinase; Phosphorylation; RIβ; cyclic AMP; (Testis) (DeManno, D.A. (1222) 501)

Protein kinase; Dietary fat; Dietary fiber; Cell proliferation; (Rat colon) (Aukema, H.M. (1224) 51)

cyclicAMP-dependent protein kinase
Sugar transport; Catabolite inactivation; Protein kinase; (*S. cerevisiae*) (Riballo, E. (1192) 143)

cyclic AMP response element-binding protein
Transforming growth factor β1; AP-1; Phorbol ester; Methylated DNA binding protein (Asiedu, C.K. (1219) 55)

dibutyryl cyclic AMP
Glycosphingolipid; Glycosylceramide; Glioma; Differentiation; cyclic AMP (Hoffman, L.M. (1222) 37)

AMPA
Glutamate receptor; Kainate; cDNA sequence; Amino acid sequence; RNA splicing; (Human) (Rampersad, V. (1219) 563)

Amphibian urinary bladder
Major intrinsic protein (MIP); Channel forming integral protein (CHIP28); Osmotic water permeability; RACE PCR; (*R. esculenta*) (Abrami, L. (1192) 147)

Amphipathic α-helical peptide
Lipid–peptide interaction; Ion channel-forming peptide; Liposome (Lee, S. (1191) 181)

Amphipathic α-helical structure
Phospholipase A_2; Liposome; Peptide–lipid interaction; Interfacial property (Kato, T. (1211) 215)

Amphipathic peptide
Vasoactive intestinal polypeptide; Lipid bilayer (Noda, Y. (1191) 324)

Amphiphile
Detergent; Erythrocyte; Vesiculation; Phospholipid; Cholesterol; Polypeptide; Glycoprotein (Hägerstrand, H. (1190) 409)

Erythrocyte membrane; Flip-flop; Anion exchange; Band 3; Flippase (Ortwein, R. (1191) 317)

Amphiphilic form
Acetylcholinesterase; Dimerization; Stability; Salt bridge; (*T. californica*) (Bucht, G. (1209) 265)

Amphiphilic helix
Mastoparan X; Lipid membrane; Aggregation; Alpha-helical peptide; Orientation (Fujita, K. (1195) 157)

Amphiphilic polymer
Drug carrier; Long-circulating liposome; Polyacrylamide; Poly(vinyl pyrrolidone); Biodistribution (Torchilin, V.P. (1195) 181)

Amphotericin
Water; Sterol; Complexation (Langlet, J. (1191) 79)

Amphotericin B
Bilayer curvature; Phosphatidylcholine; Cholesterol; Liquid ordered phase; Freeze-fracture; Electron microscopy (Meyer, H.W. (1190) 9)

Amplification
IMP dehydrogenase; Mycophenolic acid; Mutation; (Mouse) (Lightfoot, T. (1217) 156)

***AMY2B* gene**
α-Amylase; Amino-acid sequence; (Human) (Omichi, K. (1203) 224)

Amylase
Alpha amylase; Enzyme modification; Substrate specificity; (Pancreas) (Yamashita, H. (1202) 129)

Proteolysis; Proteolytic enzyme; Raw-starch-digestion; Domain structure: Enzyme multiplicity; (*B. circulans* F-2); (Subtilisin); (Proteinase K); (Endopeptidase Glu-C); (Thermolysin) (Kim, C.-H. (1202) 200)

Amylase secretion
Secretagogue; Signal transduction; Second messenger; ATPase, Ca^{2+}- (Metz, D.C. (1220) 199)

Amylase/trypsin inhibitor
Bifunctional inhibitor; Protein denaturation; Inhibition kinetics; (*E. coracana*) (Alagiri, S. (1203) 77)

α-Amylase
Amylase; Enzyme modification; Substrate specificity; (Pancreas) (Yamashita, H. (1202) 129)

Amino-acid sequence; *AMY2B* gene; (Human) (Omichi, K. (1203) 224)

α-Amylase inhibitor
cDNA; Arcelin; Phytohemagglutinin; Insect resistance; (*Phaseolus vulgaris*) (Suzuki, K. (1206) 289)

Amyloid β-protein precursor
Proteinase inhibitor domain; Anticoagulant (Van Nostrand, W.E. (1209) 165)

Amyloid fibril
Serum amyloid A; Isotype; Recombinant (Yamada, T. (1226) 323)

Amyloid protein
cDNA; Alternative splicing; Sequence comparison; Alzheimer's disease; Enzyme inhibition; (Rat) (Sandbrink, R. (1219) 167)

β-Amyloid
Alzheimer's disease; Phosphoinositide; Phospholipase C (Wallace, M.A. (1227) 183)

Amyloidosis
Serum amyloid A gene; mRNA; Inflammation; Gene expression; (Mink) (Rygg, M. (1216) 402)

Amyloid P component
Heparin; Glycosaminoglycan; Binding; Serum (Li, X.A. (1201) 143)

Anaerobic degradation
Molybdoenzyme; Phloroglucinol pathway; Transhydroxylase; Trihydroxybenzene; (*P. acidigallici*) (Reichenbecher, W. (1204) 217)

Anaerobic free living protozoon
Hydrogenosome; Ferredoxin; cDNA; Protein sequence; Protozoon; (*P. lanterna*) (Brul, S. (1183) 544)

Anchor polypeptide
Succinate-ubiquinone oxidoreductase; cDNA; Nucleotide sequence; (Beef heart) (Cochran, B. (1188) 162)

Androgen
Secretory protein; Retinoid; Epididymis (Regalado, F. (1200) 235)

Adenylyl cyclase; Preadipocyte; (Rat) (Lacasa, D. (1224) 527)

Androgen regulation
Prostatic acid phosphatase; Cosmid clone; Promoter sequence; (Prostatic cancer cell) (Banas, B. (1217) 188)

Anesthetic
Sarcoplasmic reticulum vesicle; Dibucaine; Local anesthetic; Fluorescence (Louro, S.R.W. (1189) 243)

Sodium channel; Pentobarbital; Channel activation gating (Rehberg, B. (1194) 215)

Anesthetic, volatile
Halothane; Isoflurane; Enflurane; Contractility; Calcium; Ryanodine receptor; (Heart) (Lynch III, C. (1194) 109)

Angiogenesis
Ribonuclease superfamily; Homology; Active site (Curran, T.P. (1202) 281)

Angiotensin-converting enzyme
Bradykinin receptor; Solubilization; [^{3}H]Bradykinin binding; Lung; (Guinea pig) (Trifilieff, A. (1191) 109)

Angiotensin converting enzyme
Peripheral blood monocyte; Colony-stimulating factor; Alveolar macrophage; Polymerase chain reaction (Lazarus, D.S. (1226) 12)

Angiotensin-converting enzyme inhibitor
Angiotensin receptor; Hypertension; (Rat) (Negoro, N. (1226) 19)

Angiotensin II
Type 2 receptor; cDNA; Genomic DNA sequence; (Mouse) (Ichiki, T. (1189) 247)

Granulosa cell; Receptor; Antagonist (Ohnishi, J. (1192) 286)

Elastin; Platelet-derived growth factor; Smooth muscle cell (Tokimitsu, I. (1207) 68)

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Anion dependence
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Anion exchange
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Anion exchange protein
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Anionic polysaccharide
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Anion ligation
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Anion transport
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Taurine; Cell volume; Cerebral cortex; (Rat) (Law, R.O. (1224) 377)

Anion transport inhibitor
Erythrocyte; Benzene sulfonate; Band 3; Anion exchange protein; Water flux; Urea flux (Toon, M.R. (1193) 276)

Anion uptake
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Anisotropy
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Ankyrin repeat
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Annexin
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Anomeric preference
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α-Adrenergic hormone; Cyclosporin A; Glucose metabolism; Fructose 2,6-bisphosphate level; Lymphocyte; (Rat thymus) (Gualberto, A. (1221) 199)

Glycopeptide; Conformation; T-cell activity; Epitope; Agonist (Otvos Jr., L. (1224) 68)

Antenna
Bacteriochlorophyll-protein complex; Photosynthesis; Energy transfer; Fluorescence polarization; Site-directed mutagenesis; (*R. capsulatus*) (Olivera, L.M. (1185) 318)

Purple bacterium; Energy transfer; Reaction center; Energy trapping; (*C. vinosum*); (*C. tepidum*) (Kennis, J.T.M. (1188) 278)

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Anti-cardiolipin antibody
Antioxidant enzyme; Autoimmunity; Fatty acid composition; Gene expression; Lipid peroxidation (Venkatraman, J.T. (1213) 167)

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Anticholinesterase toxin
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Cathepsin G; Leukocyte elastase; Antitrypsin, n, α_1-; Plasma; (Human) (Chignard, M. (1224) 431)

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Antiestrogen
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Anti-fluorescein antibody
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(1,3)-β-Glucan synthase; Phospholipase A_2; Fluorescence anisotropy; Fatty acid; Membrane perturbation (Ko, Y.-T. (1193) 31)

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Antigen stimulation
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Anti-GM1 antibody
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Anti-idiotypic antibody
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Antimycin A resistance
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Selenium; Gene regulation; Regulatory element; Nuclear protein (Christensen, M.J. (1225) 338)

Antioxidant enzyme
Autoimmunity; Fatty acid composition; Gene expression; Lipid peroxidation; Anti-cardiolipin antibody (Venkatraman, J.T. (1213) 167)

Antioxidant responsive element
NAD(P)H:quinone oxidoreductase gene; Glutathione *S*-transferase gene; Protein characterization; Competition assay; Gel mobility shift assay; (Human); (HeLa cell) (Wang, B. (1219) 645)

Anti-peptide antibody
Immunodetection; Sodium ion/phosphate cotransporter; Kidney; (Rat); (Rabbit); (Bovine) (Delisle, M.-C. (1190) 289)

Antisense oligonucleotide
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Cell-free translation; α-Oligonucleotide; Photosensitizer; Hairpin structure (Pascolo, E. (1219) 98)

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α2-Plasmin inhibitor; Serine proteinase; (Hep-G2 cell) (Mori, K. (1226) 300)

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Antitrypsin, α_1-
Cathepsin G; Leukocyte elastase; Antichymotrypsin, α_1-; Plasma; (Human) (Chignard, M. (1224) 431)

Antitumor therapy
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Antiuterotrophic activity
Alpha fetoprotein; Antiestrogen; Estradiol; Protein purification; Albumin (Allen, S.H.G. (1202) 135)

Antiviral
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AP-1
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Acute phase protein; NFkB; IL-1; IL-6; Zinc; Cadmium; (Human liver); (HepG2 cell) (Daffada, A.A.I. (1222) 234)

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Transcription regulation; Carbon catabolite regulation; Ubiquinol cytochrome *c* oxidoreductase; QCR7; (*K. lactis*) (Mulder, W. (1219) 719)

***APEX* gene**
Apurinic/apyrimidinic endonuclease; DNA repair gene; *APEX* promoter; Chromosomal assignment; (Human) (Akiyama, K. (1219) 15)

***APEX* promoter**
Apurinic/apyrimidinic endonuclease; DNA repair gene; Chromosomal assignment; *APEX* gene; (Human) (Akiyama, K. (1219) 15)

Aphidicolin
Butylphenyldeoxyguanosine (BuPGdR); DNA repair; DNA polymerase; Ultraviolet; Alkaline sucrose density gradient centrifugation; (Human fibroblast) (Yamada, K. (1219) 302)

Aphidicolin resistance
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Apical
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Apolipoprotein E; Transcription control; Phorbol ester; (Human macrophage) (Basheeruddin, K. (1218) 235)

Apo A-I
Lipoprotein; Apo A-II; Apo A-IV; LCAT; Cholesterol esterification; Sphingomyelin; Phosphatidylcholine; Fatty acid composition (Duverger, N. (1211) 23)

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HDL; Cholesterol efflux (Luchoomun, J. (1212) 319)

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Apo B-100; Posttranslational regulation; Intracellular degradation; Butyrate; HepG2 (Kaptein, A. (1213) 349)

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Apo A-II
Lipoprotein; Apo A-I; Apo A-IV; LCAT; Cholesterol esterification; Sphingomyelin; Phosphatidylcholine; Fatty acid composition (Duverger, N. (1211) 23)

Apo A-IV
Lipoprotein; Apo A-I; Apo A-II; LCAT; Cholesterol esterification; Sphingomyelin; Phosphatidylcholine; Fatty acid composition (Duverger, N. (1211) 23)

Apo B
Cu^{2+} catalyzed lipid peroxidation; Apolipoprotein–lipid association; Tryptophan residue; Apo HDL (Shoukry, M.I. (1210) 355)

Gene expression; Liver regeneration (Maldonado, V. (1211) 1)

mRNA; Ethanol; HepG2 cell (Wang, T.W.M. (1211) 234)

LDL; Malondialdehyde; Enzyme-linked immunosorbent assay; Oxidized LDL (Kotani, K. (1215) 121)

Apo B-100
Apo A-I; Posttranslational regulation; Intracellular degradation; Butyrate; HepG2 (Kaptein, A. (1213) 349)

Apoenzyme reactivation
Aminopeptidase; Purification; Characterization; Metalloenzyme; Deglycosylation; (*Thunnus albacares*) (Hajjou, M. (1204) 1)

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Atomic force microscopy; Ferritin; Immunoglobulin; Hemoglobin; 1,2-Dihexadecanoyl-rac-glycero-3-phosphatidylcholine (DPPC) (Yang, J. (1199) 105)

Apo HDL
Cu^{2+} catalyzed lipid peroxidation; Apolipoprotein–lipid association; Tryptophan residue; Apo B (Shoukry, M.I. (1210) 355)

Apolipoprotein
Image analysis; Lipoprotein; LCAT activity; (Equine follicular fluid) (Le Goff, D. (1210) 226)

Apolipoprotein B; Intestine; mRNA; Postprandial; (Human) (Lopez-Miranda, J. (1214) 143)

Apolipoprotein(a)
Kringle 4-37; Lysine binding pocket; PCR (Pfaffinger, D. (1225) 107)

Apolipoprotein A-I
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Amino acid analysis; Isoprotein; Proapolipoprotein A-I (Saku, K. (1217) 29)

Apolipoprotein AI
Familial amyloidotic polyneuropathy; Apolipoprotein AII; Transthyretin; High density lipoprotein (Tanaka, Y. (1225) 311)

Apolipoprotein AII
Familial amyloidotic polyneuropathy; Apolipoprotein AI; Transthyretin; High density lipoprotein (Tanaka, Y. (1225) 311)

Apolipoprotein A-IV
Gene expression; Orphan ligand; HNF-4; COUP transcription factor; (Human) (Ochoa, A. (1210) 41)

Apolipoprotein B
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Hepatocyte; Lipoprotein; Recombinant DNA; DNA; Transfection; Cell culture (Yao, Z. (1212) 152)

Oxidative modification; LDL oxidation; Free radical (Noguchi, N. (1213) 176)

Apolipoprotein; Intestine; mRNA; Postprandial; (Human) (Lopez-Miranda, J. (1214) 143)

Triacylglycerol-rich lipoprotein; VLDL; Liver; Hepatocyte; Intestine; Insulin; Diabetes; Fatty acid (Sparks, J.D. (1215) 9)

Mooring sequence; mRNA editing; (Mammal) (Backus, J.W. (1217) 65)

mRNA editing; Mooring sequence (Backus, J.W. (1219) 1)

Apolipoprotein B metabolism
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Apolipoprotein E
Ap1-like protein; Transcription control; Phorbol ester; (Human macrophage) (Basheeruddin, K. (1218) 235)

Apolipoprotein immunoreactivity
Lipid peroxide; Cu^{2+} oxidation; Lipoprotein fluorescence; Atherosclerosis (Chiu, H.-C. (1225) 200)

Apolipoprotein–lipid association
Cu^{2+} catalyzed lipid peroxidation; Tryptophan residue; Apo HDL; Apo B (Shoukry, M.I. (1210) 355)

Apoprotein B
Arachidonic acid; LDL apheresis; Diacylphosphatidylcholine; Diacylphosphatidylethanolamine; Pyrene-labeled phospholipid; Phospholipid (Engelmann, B. (1196) 154)

Enteral nutrition; Parenteral nutrition; Steatosis; VLDL; Lipoprotein release; (Rat) (Yamashita, H. (1210) 329)

Apoprotein E
Chilomicron; Lipoprotein; Chilomicron remnant removal; Hepatic uptake; (Mouse) (Chang, S. (1215) 205)

Apoptosis
Farnesol; Phosphatidylcholine; (Lymphoblastoid cell); (Human) (Haug, J.S. (1223) 133)

Calcium; Chelator; Cell death; Magnesium (Kluck, R.M. (1223) 247)

L-Carnitine; Hepatocyte; Heptocyte growth factor; (Mouse) (Revoltella, R.P. (1224) 333)

Apparent equilibrium constant
Thermodynamics; Equilibrium constant; Standard formation property; Coupling; Transformed thermodynamic property (Alberty, R.A. (1207) 1)

APS-kinase
APS-sulfotransferase; cDNA sequence; Gene function; Plastidic protein; Protein expression; (*Arabidopsis thaliana*) (Arz, H.E. (1218) 447)

APS-sulfotransferase
APS-kinase; cDNA sequence; Gene function; Plastidic protein; Protein expression; (*Arabidopsis thaliana*) (Arz, H.E. (1218) 447)

Apurinic/apyrimidinic endonuclease
DNA repair gene; *APEX* promoter; Chromosomal assignment; *APEX* gene; (Human) (Akiyama, K. (1219) 15)

Apyrase
ATP-diphosphohydrolase; Purine nucleotide; Smooth muscle (Picher, M. (1200) 167)

AQN-1
Boar sperm; Spermadhesins; AWN; AQN-2; AQN-3; Sperm capacitation (Dostàlovà, Z. (1200) 48)

AQN-2
Boar sperm; Spermadhesins; AWN; AQN-1; AQN-3; Sperm capacitation (Dostàlovà, Z. (1200) 48)

AQN-3
Boar sperm; Spermadhesins; AWN; AQN-1; AQN-2; Sperm capacitation (Dostàlovà, Z. (1200) 48)

Aquatic contamination
Dehydroabietic acid; EPR; Resin acid; Erythrocyte; Hemolysis; (Pulp and paper mill); (Trout) (Butterfield, D.A. (1192) 185)

Aqueous humor
Eye lens; Lipid peroxidation; Reactive oxygen species; Cataract (Babizhayev, M.A. (1225) 326)

Aqueous phase
Cell system; Partitioning; Erythrocyte; Electrophoresis (Walter, H. (1194) 131)

Aqueous two-phase system
Chloroplast; Thylakoid; Photosystem I; Photosystem II; Cytochrome *f*; LHC II kinase (Wollenberger, L. (1184) 93)

Arabidopsis
Lipoxygenase; Gene structure (Melan, M.A. (1210) 377)

Arabinosyl nucleotide resistance
Replication; DNA polymerase; Aphidicolin resistance; (Chinese hamster ovary cell) (Fehér, Z. (1218) 35)

Ara-C
Deoxycytidine kinase; Protein kinase C (Wang, L.-M. (1224) 161)

Arachidonate
Lecithin-cholesterol acyltransferase; Positional specificity; Docosahexaenoate; Recombinant LCAT; Mouse-human chimera (Subbaiah, P.V. (1215) 150)

Arachidonate movement
Transacylase; Platelet-activating factor; Neutrophil (Winkler, J.D. (1215) 133)

Arachidonic acid
LDL apheresis; Diacylphosphatidylcholine; Diacylphosphatidylethanolamine; Pyrene-labeled phospholipid; Apoprotein B; Phospholipid (Engelmann, B. (1196) 154)

Cytochrome *P*-450; Icosatrienoic acid; Site-directed mutagenesis; *P*-450 2B subfamily; Heterologous expression; Structure–function relationship (Laethem, R.M. (1206) 42)

Icosanoid metabolism; Ethanol; Phospholipase A_2; Macrophage; (Mouse) (Balsinde, J. (1210) 195)

12-Hydroxyeicosatetraenoic acid; 12-Hydroxyeicosatrienoic acid; Cytochrome *P*-450; Lipoxygenase (Yamamoto, S. (1210) 217)

Lipoxygenase; Positional specificity; Stereospecificity; (Tomato) (Regdel, D. (1210) 297)

Site-directed mutagenesis; 12-Lipoxygenase; Prokaryotic expression; Iron-binding domain; Positional specificity; (Porcine) (Suzuki, H. (1210) 308)

IGF_1; TGF-β; Transferrin; Differentiation; Proliferation; Phospholipid release (Wikiel, H. (1211) 161)

Lipid metabolism; Neuroblastoma cell line; Labeling (Kennedy, C. (1211) 326)

Phospholipase A_2; Phospholipase A_2, type II; Docosahexaenoic acid; Eicosapentaenoic acid; Alkenylacylglycerophosphoethanolamine; (Rabbit) (Shikano, M. (1212) 211)

5-Lipoxygenase; Phospholipase A_2; Calcium; GM-CSF (Krump, E. (1213) 135)

Polyenoic very-long-chain fatty acid; Metabolism; Monohydroxylated fatty acid; Neutrophil; (Human) (Robinson, B.S. (1213) 325)

Platelet; Venom; Phospholipase A_2; (Mammalian) (Mounier, C. (1214) 88)

Fatty acid metabolism; Leukotriene; Lipoxin; Lipoxygenase products; Icosapentaenoic acid; Chemotaxis; Leukocyte; (Rainbow trout); (*O. mykiss*) (Ashton, I. (1214) 253)

Docosahexaenoic acid; Docosapentaenoic acid; Icosanoid; Icosapentaenoic acid; Fish oil; Glyceryl ether; Nutrition; $(n-3)$ Fatty acid; Plasmalogen; Platelet-activating factor; Transacylase (Blank, M.L. (1214) 295)

Peripheral blood; Mononuclear leukocyte; *p*-Aminobenzoic acid; *p*-Acetamidobenzoic acid (Barbieri, B. (1214) 309)

Fibroblast growth factor; Signal transduction; Phosphoinositide turnover; (Swiss 3T3 cell) (Virdee, K. (1220) 171)

Vasopressin; Hydroosmosis; Urinary bladder; (Frog) (Firsov, D.L. (1220) 305)

Thyrotropin; Phospholipase C; Inositol 1,4,5-trisphosphate; Calcium ion, intracellular; (Thyroid cell); (Rat) (Wang, X.-D. (1223) 101)

Phorbol myristate acetate; Calcium ionophore A23187; Phospholipase A_2; DMSO-induced differentiation; (U937 histiocytic lymphoma cells) (Rzigalinski, B.A. (1223) 219)

Protein kinase C; Prostaglandin; EGF receptor; (Chinese hamster ovary cell) (Clark, S. (1224) 221)

Arachidonic acid content
Phosphatidylcholine; Dietary oil; Clofibric acid; Prostaglandin formation; Liver; Kidney; (Rat) (Kawashima, Y. (1210) 187)

Arachidonic acid liberation
Phosphatidic acid; Phospholipase D; Phospholipase A_2; Platelet; (Rabbit) (Hashizume, T. (1221) 179)

Arachidonic acid pathway
Phospholipase A_2; Cytosol; Promoter; Nucleotide sequence (Tay, A. (1217) 345)

AraC protein
Gene expression; Protein–DNA interaction; Regulatory circuit; Transfection (Raman, V. (1219) 441)

Arcelin
cDNA; α-Amylase inhibitor; Phytohemagglutinin; Insect resistance; (*Phaseolus vulgaris*) (Suzuki, K. (1206) 289)

Archaea
Indole-3-glycerol-phosphate synthase; TIM-barrel; Thermostability; (*S. solfataricus*) (Andreotti, G. (1208) 310)

S-layer gene; Repeat; (*Methanosarcina mazei*) (Yao, R. (1219) 697)

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Surfactant; Liposome; NMR, ^1H-; FABMS; Membrane morphology (Yamauchi, K. (1193) 41)

ATPase; Pyrophosphatase (PPase); Plasma membrane; (*M. thermoautotrophicum*) (Roth, R. (1201) 271)

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Ribosomal protein; Nucleotide sequence; Evolution; (*H. halobium*) (Yuki, Y. (1216) 335)

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Aromatase expression
Aromatase; Phorbol ester; (Human) (Wang, J. (1218) 48)

***arom* protein**
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Aspergillopepsin I
Aspartic proteinase; Specificity; Trypsinogen activation; (*Aspergillus*) (Shintani, T. (1204) 257)

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ATPγS
Rubisco activase; ATP; Fluorescence; Enzyme regulation; (Spinach) (Wang, Z.Y. (1202) 47)

ATP hydrolysis
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ATPase, H^+-; Energy coupling (Futai, M. (1187) 165)

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ATPase, F_1-
ATPase, F_0F_1-; Complementation; Chimeric protein (Burkovski, A. (1186) 243)

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ATPase, F_oF_1-; Energy coupling (Futai, M. (1187) 165)

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ATPase, Na^+/K^+-
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ATPase, unstable
ATPase, F_0F_1-; Purification; Detergent; (*Vibrio parahaemolyticus*) (Ogawa, W. (1188) 69)

ATPase, vacuolar
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Light-harvesting complex; Site specific mutant; Binding site; Bacteriochlorophyll *a*; CD; (*Rb. sphaeroides*) (Visschers, R.W. (1183) 483)

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NAP-22; Myristoylation; Liposome; Calmodulin binding (Maekawa, S. (1218) 119)

Baculovirus expression vector
Histidine decarboxylase; Mastocytoma cell; Post-translational processing; (Mouse) (Yamamoto, J. (1216) 431)

Band 3
Erythrocyte; Erythrocyte removal; Phagocytosis; Oxidative damage; Diamide (Turrini, F. (1190) 297)

Erythrocyte membrane; Flip-flop; Amphiphile; Anion exchange; Flippase (Ortwein, R. (1191) 317)

Echinocyte; Cytoskeleton; Erythrocyte membrane; Cell shape; Cell volume; DIDS (Blank, M.E. (1192) 223)

Erythrocyte; Benzene sulfonate; Anion exchange protein; Anion transport inhibitor; Water flux; Urea flux (Toon, M.R. (1193) 276)

Protein 4.1; Calmodulin; Glycophorin; Erythrocyte membrane (Lombardo, C.R. (1196) 139)

Band 3 protein
Oxidative stress; Membrane protein degradation; Membrane-bound proteinase; Spectrin; (Erythrocyte) (Beppu, M. (1196) 81)

Band shift
B820 subunit; Core antenna complex; Hydrogen bonding; Resonance Raman spectroscopy; (*Rs. rubrum* G9) (Visschers, R.W. (1183) 369)

B700 antigen
Melanoma-specific monoclonal antibody; Metastasis; Antimetastatic; Abrogation (Law, L.W. (1226) 105)

Baobab seed oil
Fatty acid desaturation; Microsome; Cyclopropene fatty acid; (Rat liver) (Cao, J. (1210) 27)

Barley
Proteinase inhibitor; Inhibition kinetics; Proteinase; Chymotrypsin inhibitor (Greagg, M.A. (1222) 179)

Barnacle fiber
Sodium ion efflux; Zinc; Microinjection; cyclic AMP; Forskolin (Xie, H. (1195) 51)

Basal membrane
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Base exchange enzyme
Phosphatidylserine; Phosphatidylserine synthase; Phosphatidylcholine; Phosphatidylethanolamine; Microsome; (Rat liver) (Ellingson, J.S. (1213) 113)

Basement membrane
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Basigin
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Basolateral membrane
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Basophilic leukemia cell
Calcium ion uptake; Histamine release; Tyrosine kinase inhibitor; Antigen stimulation; (Rat) (Teshima, R. (1221) 37)

***bc*$_1$ complex**
Electron transfer; Supercomplex; Reaction center; Cytochrome c_2; (*R. sphaeroides*) (Verméglio, A. (1183) 352)

Electron transfer; Supercomplex; Reaction center; Cytochrome c_2; (*Rb. sphaeroides* forma sp. *denitrificans*) (Sabaty, M. (1187) 313)

BCECF
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B cell development
Helix-loop-helix protein; DNA binding domain; Dimerization domain; Heterodimer; Sex determination; Myogenesis (Murre, C. (1218) 129)

Beam deflection
Bacteriorhodopsin; Photocycle; Protein motion; Photothermal; (*H. halobium*) (Schulenberg, P.J. (1185) 92)

Bending elasticity
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Benign prostatic hyperplasia
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Benzamide
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Benzene sulfonate
Erythrocyte; Band 3; Anion exchange protein; Anion transport inhibitor; Water flux; Urea flux (Toon, M.R. (1193) 276)

Benzo[*a*]pyrene
Aflatoxin B_1; Primary cultured hepatocyte; Binding protein; (Chicken embryo) (Iwaki, M. (1225) 83)

Intestine (human); Carcinogen; Transport; P-Glycoprotein (Penny, J.I. (1226) 232)

1-Benzylimidazole
Cytochrome *P*-450 2B1/2; Testosterone (Kobayashi, Y. (1200) 11)

Berenil
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Beta cell
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Sulfonylurea receptor; Insulin secretion; Photoaffinity labeling; Glimepiride; Glibenclamide; ATP-regulated K^+-channel; Potassium ion channel (Kramer, W. (1191) 278)

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Betaine
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Fatty acid oxidation; Acetyl-CoA carboxylase; Carnitine palmitoyltransferase 1; Carnitine acetyltransferase; Malonyl-CoA; Carnitine; Coenzyme A; Ischemia (Lopaschuk, G.D. (1213) 263)

Peroxisome; Thromboxane; Zellweger syndrome; Eicosanoid (De Waart, D.R. (1226) 44)

Beta structure
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ATPase, Na^+/K^+; Monoclonal antibody epitope; Bacteriophage random peptide library; Thiol inactivation (Sun, Y. (1207) 236)

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Beta turn
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Beticolin
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***Bet v* I**
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Bicarbonate transport
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Bilayer curvature
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Bilayer hydration
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Bilayer interdigitation
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Bilayer membrane
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Cholesterol; Hypocholestolemia (Stedronsky, E.R. (1210) 255)

HDL; Malondialdehyde; Biliary secretion (Guertin, F. (1214) 137)

Bile formation; Dietary phospholipid; Bile acid secretion; (Rat) (Rioux, F. (1214) 193)

Bile acid: CoA ligase
Acyl-CoA synthetase; Bile acid conjugation; Cholate; Acyl-CoA; Sulfhydryl group (Vessey, D.A. (1203) 126)

Bile acid conjugation
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Bile acid; Cholate; CoA; Ligase; Magnesium ion; Manganese ion (Kelley, M. (1209) 51)

Bile acid secretion
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Bile acid transport
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Bile formation
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Bile; Gallstone; Phospholipid vesicle; Cholesterol nucleation; Gel filtration; (Prairie dog) (Ahrendt, S.A. (1211) 7)

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Biliary secretion
HDL; Malondialdehyde; Bile acid (Guertin, F. (1214) 137)

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Biliprotein
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Bilirubin
Microsome; Lipid peroxidation; Photooxidation; Protoporphyrin; Porphyrias (Williams, M. (1211) 310)

Heme oxygenase; Oxidative stress; Cobalt chloride; Sn-protoporphyrin IX; Liver; (Rat) (Llesuy, S.F. (1223) 9)

Bilirubin binding
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Binding
Amyloid P component; Heparin; Glycosaminoglycan; Serum (Li, X.A. (1201) 143)

Lipoprotein; Receptor; Cholesteryl ester; Selective uptake; Lipid; (Human); (HepG2 cell) (Brissette, L. (1213) 5)

Binding assay
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Binding characteristic
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Binding constant
Adsorption enthalpy; Bilayer membrane; Titration calorimetry; Calcium ion; Lanthanum ion (Lehrmann, R. (1189) 89)

Long-chain fatty acid; Fatty acid transport; Albumin; Membrane (Rose, H. (1215) 321)

Binding force
ATPase; Active transport; Coupling mechanism; Uncoupled transport; Transport kinetics (Krupka, R.M. (1193) 179)

Binding property
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Binding protein
Bile acid transport system; Cyclosomatostatin; Two-phase separation; EDTA extraction; (Rat liver) (Wenzel, U. (1193) 17)

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Dehydroepiandrosterone sulfate; Peroxisome proliferator; Enzyme induction; (Rat liver cytosol) (Yamada, J. (1224) 139)

Aflatoxin B_1; Benzo[*a*]pyrene; Primary cultured hepatocyte; (Chicken embryo) (Iwaki, M. (1225) 83)

Binding protein-1
DNA sequence; Insulin-like growth factor; Gene structure; (Rat) (Lacson, R. (1218) 95)

Binding rate
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Binding site
Light-harvesting complex; Site specific mutant; Bacteriochlorophyll *a*; B800; CD; (*Rb. sphaeroides*) (Visschers, R.W. (1183) 483)

HDL; HDL binding; Basolateral membrane; Apolipoprotein A-I; (Kidney) (Senault, C. (1189) 168)

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Bioadhesion
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Biocatalysis
Protein dynamics; Protein function; Charge-transfer reaction; Molecular probe; Protein photochemistry; Excited state (Demchenko, A.P. (1209) 149)

Biocatalyst
Acidity; Lipase; Subtilisin; Organic medium; Buffered solution (Blackwood, A.D. (1206) 161)

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Biodistribution
Poly(ethylene glycol); Liposome; Drug delivery (Litzinger, D.C. (1190) 99)

Liposome; Poly(ethylene glycol); Drug delivery system; Stability; Exchange (Parr, M.J. (1195) 21)

Drug carrier; Long-circulating liposome; Amphiphilic polymer; Polyacrylamide; Poly(vinyl pyrrolidone) (Torchilin, V.P. (1195) 181)

Bioelectric field effect
Myelin tube; Phosphatidylcholine; Conductivity; Bending elasticity; Model membrane (Mishima, K. (1191) 157)

Bioenergetic membrane
Transmembrane measurement; Energy transduction; Membrane nomenclature; (Nomenclature proposal) (Silverstein, T.P. (1183) 1)

Bioenergetics
Biomembrane; Diffusion; Sucrose; Glycerol; Membrane dynamics; Hydration (Chazotte, B. (1194) 315)

ATP synthase; Gene structure; Mitochondrion; Cell type-specific gene regulation (Akiyama, S. (1219) 129)

Biological activity
Neurotoxin; Fragments; Phospholipids; Direct binding; (*Cl. botulinum*) (Kamata, Y. (1199) 65)

Biological membrane
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Biological system
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Biological transport
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Bioluminescence
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Firefly luciferase; Protein engineering; C-terminus; Luciferase; (Firefly) (Sala-Newby, G.B. (1206) 155)

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Bioenergetics; Diffusion; Sucrose; Glycerol; Membrane dynamics; Hydration (Chazotte, B. (1194) 315)

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Biosynthesis
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Biotin
Liposome; Streptavidin; Ganglioside; Poly(ethylene glycol); Targeted liposome (Corley, P. (1195) 149)

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Biotinylation
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Bipartite motif
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Bipolar lipid
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Bivascular liver perfusion
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Blasticidin S deaminase
Transfection; Drug resistance gene (Kimura, M. (1219) 653)

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Cytokine; Nitric oxide synthase; Protein kinase C; Transcription; (Smooth muscle cell); (Rat) (Geng, Y.-j. (1223) 125)

Blue membrane
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B lymphocyte
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Body mass
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Bombesin
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Cholecystokinin; Protein kinase C; cyclic AMP; Calcium ion (Chang, C.H. (1221) 339)

Bone
Collagen type V; Skin; Propeptide; Amino-acid sequence (Niyibizi, C. (1203) 304)

Cartilage; Nitric oxide; Interleukin-1; cDNA cloning (Maier, R. (1208) 145)

Bone calcium mobilization
24-Fluoro-1α,25-dihydroxyvitamin D-2; 24-Epi-24-fluoro-1α,25-dihydroxyvitamin D-2; Receptor binding; Cell differentiation; Intestinal calcium transport (Imae, Y. (1213) 302)

Bone growth
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Bone matrix
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Bone resorption
Bone matrix; Polypeptide (Hill, P.A. (1201) 193)

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Bovine mercaptalbumin
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Bovine pancreas
Phospholipase A_2; Surfactant protein A; Lectin-binding; (*C. atrox*); (*N. naja*); (*T. flavoviridis*) (Fisher, A.B. (1211) 256)

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NMR; Magnetization transfer; Cross-relaxation; Bound water; Residence time (Iino, M. (1208) 81)

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[^{3}H]Bradykinin binding
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Bradykinin receptor
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Brain ischemia
Superoxide dismutase; Systemic circulation; Nitric oxide; N^G-Monomethyl-L-arginine; Nitrite; Nitrate (Sakashita, N. (1227) 67)

Brain membrane
Lipid binding; Ganglioside; Carbohydrate receptor (White, T.K. (1196) 218)

Brain-specific MT-III
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Brain-type aldolase
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Branched-chain α-keto-acid dehydrogenase complex
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Branched-chain α-keto acid dehydrogenase
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Branched-chain amino acid
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Branched-chain 2-oxo acid dehydrogenase complex
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Brassica
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Brefeldin A
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Bromocryptine
G protein; Lactation; Lipolysis; Adipocyte; (Rat) (Moreno, F.J. (1222) 203)

Bromoperoxidase
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Bromophenylacylbromide
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Bromopinacolone
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Uncoupling protein; C/EBPα; Glucose transporter; Dexamethasone; Cell differentiation; (Rat) (Shima, A. (1223) 1)

Brown fat
Thermogenin; Sulfonate; GDP binding; Purine nucleotide; Mitochondrion; (Hamster) (Nedergaard, J. (1185) 311)

Fatty acid; Developmental regulation; (Rat) (Hainline, B.E. (1216) 460)

Brush-border membrane
Organic anion; Surface potential; Permeation (Sugawara, M. (1190) 85)

GPI-anchored enzyme; Membrane enzyme; Glycosylphosphatidyl inositol; Aminopeptidase P; (Rat intestine) (Koelsch, R. (1190) 170)

Oleic acid; Sodium ion/D-glucose transport; *trans* Sodium inhibition; Membrane fluidity; Lipid–protein interaction; (Kidney) (Wagner, S. (1190) 309)

NBTI-sensitive nucleoside transport; Nucleoside transport; Kidney; Solubilization; Adenosine; Nitrobenzylthioinosine (Ciruela, F. (1191) 94)

Proximal tubule; Sodium cotransport; Phosphate transport; (Superficial rat renal cortex); (Juxtamedullary rat renal cortex) (Yusufi, A.N.K. (1191) 117)

Amino acid transport; Obesity; (Rat) (Sanchís, D. (1192) 159)

Chloride–anion exchanger; Kinetics; (Chicken jejunum) (Cano, M. (1193) 138)

Putrescine; Uptake; Small intestine; Tumor; Polyamine; (Rat tissue) (Brachet, P. (1227) 161)

Brush-border membrane vesicle
Calcium ion transport; 1,25-Dihydroxyvitamin D_3; Myosin I (Kaune, R. (1190) 329)

Phenylglyoxal; Potassium ion/leucine cotransport; Leucine transport; Chemical modification; (Lepidopteran larva) (Parenti, P. (1191) 27)

Renal; Ionic permeability; Fluorescence polarization; Membrane fluidity (Medow, M.S. (1191) 219)

***P*-450 2B subfamily**
Cytochrome *P*-450; Arachidonic acid; Icosatrienoic acid; Site-directed mutagenesis; Heterologous expression; Structure–function relationship (Laethem, R.M. (1206) 42)

B820 subunit
Core antenna complex; Hydrogen bonding; Band shift; Resonance Raman spectroscopy; (*Rs. rubrum* G9) (Visschers, R.W. (1183) 369)

Photosynthesis; Light-harvesting complex; Reaction center; Bacteriochlorophyll; Exciton interaction (Kerfeld, C.A. (1185) 193)

B subunit
Cholera toxin; Interchain hybrid; Site-specific modification; Receptor binding site (De Wolf, M.J.S. (1223) 285)

Buffered solution
Acidity; Lipase; Subtilisin; Organic medium; Biocatalyst (Blackwood, A.D. (1206) 161)

***tert*-Butylhydroperoxide**
Thermodynamics; Stress; WI-38 fibroblast; Ethanol; Energetic metabolism; Naftidrofuryl oxalate (Toussaint, O. (1186) 209)

Butylphenyldeoxyguanosine (BuPGdR)
Aphidicolin; DNA repair; DNA polymerase; Ultraviolet; Alkaline sucrose density gradient centrifugation; (Human fibroblast) (Yamada, K. (1219) 302)

Butyrate
Apo B-100; Apo A-I; Posttranslational regulation; Intracellular degradation; HepG2 (Kaptein, A. (1213) 349)

Butyric acid
Calsequestrin; Sarcoplasmic reticulum; Calcium ion storage; Calcium ion release (Papazafiri, P. (1223) 333)

Butyrylcholinesterase
Alkanoylcholine; Hydrolysis; Enzyme kinetics; Enzyme inhibition (Chelminska-Bertilsson, M. (1202) 56)

Acetylcholinesterase; Tocopheryl succinate; Cholesteryl succinate; Tetrahydroaminoacridine (Chelliah, J. (1206) 17)

Acetylcholinesterase; Murine muscular dystrophy; Molecular form; Glycosylation (Cabezas-Herrera, J. (1225) 283)

C

Caco-2
Carbacephem; β-Lactam; Loracarbef; Cefixime; Peptide transport; (Human intestine) (Dantzig, A.H. (1191) 7)

Intestine; Iron transport; Regulation iron absorption (Alvarez-Hernandez, X. (1192) 215)

Caco-2 cell
Biotin uptake; Cultured human intestinal cell; Intestinal transport (Ma, T.Y. (1189) 81)

pH; BCECF; Kinetics; Savitzky-Golay algorithm; Smoothing; Derivative; (Intestine) (Watson, A.J.M. (1193) 316)

Cadherin
cDNA cloning; Tissue distribution; Developmental expression; (*X. laevis*) (Tooi, O. (1219) 121)

Cadmium
Gadolinium; Calcium current; Stretch-activated channel (Lacampagne, A. (1191) 205)

Hsp70 gene; Glutathione; Oxygen radical; (Human) (Abe, T. (1201) 29)

Acute phase protein; AP-1; NFkB; IL-1; IL-6; Zinc; (Human liver); (HepG2 cell) (Daffada, A.A.I. (1222) 234)

Cadmium resistance
Metallothionein; Sequence homology; Rodent; Gene amplification (Yamada, K. (1219) 581)

Caffeine
Skeletal muscle; Saponin-skinned fiber; Oxidative phosphorylation; Calcium; (Human) (Khuchua, Z. (1188) 373)

Sarcoplasmic reticulum; ATPase, Ca^{2+}-; Cytosolic phosphorylation potential; Ventricular myocardium; Ryanodine; Pyruvate (Mallet, R.T. (1224) 22)

Caged compound
Sarcoplasmic reticulum; ATPase, Ca^{2+}-; Calcium ion binding; Protein conformational change; Protein fluorescence; FTIR (Georg, H. (1188) 139)

Calcein
Melittin; Liposome; Unsaturated lipid; Lipid–peptide interaction; Lipid–protein interaction (Subbarao, N.K. (1189) 101)

MDR1; P-glycoprotein; Fluorescent indicator; Flow cytometry; Fluorometry; Functional assay (Holló, Zs. (1191) 384)

Calcitonin; Liposome; pH variation; Bile salt; Lipid-protein complex formation (Ariën, A. (1193) 93)

Calcein leakage
Cationic lipid; Oligonucleotide; Particle size; Fusion; Aggregation (Jääskeläinen, I. (1195) 115)

Calcineurin
Protein phosphatase-2B; Stable isotope probe (Martin, B.L. (1206) 136)

Calcineurin B
Isoform; Alternative promoter usage; Testis-specific regulation; cDNA cloning (Chang, C.-D. (1217) 174)

Calcitonin
Calcein; Liposome; pH variation; Bile salt; Lipid-protein complex formation (Ariën, A. (1193) 93)

Calcitonin/CGRP-I gene
RNA processing; Polyadenylation (Van Oers, C.C.M. (1218) 55)

Calcium
Photosystem II; Oxygen-evolving complex; Manganese complex; XANES; EXAFS (MacLachlan, D.J. (1186) 186)

Photosystem II; Oxygen evolution; Water splitting (Seidler, A. (1187) 73)

Oxygen evolving complex; Manganese; EXAFS; EPR (MacLachlan, D.J. (1188) 325)

Skeletal muscle; Saponin-skinned fiber; Oxidative phosphorylation; Caffeine; (Human) (Khuchua, Z. (1188) 373)

Vitamin D; Embryonic development; Chorioallantoic membrane; Vitamin D receptor; Carbonic anhydrase; Acetazolamide (Elaroussi, M.A. (1192) 1)

Chemoreception; Calmodulin; Cilia; Olfactory reception; Olfactory signal transduction (Lo, Y.H. (1192) 153)

Anesthetic, volatile; Halothane; Isoflurane; Enflurane; Contractility; Ryanodine receptor; (Heart) (Lynch III, C. (1194) 109)

Sphingosine; Acetylcholine; (Pancreas) (Pandol, S.J. (1195) 45)

Calcium binding protein; Calreticulin; Endoplasmic reticulum; (Bovine); (Brain) (Liu, N. (1202) 70)

Muscle; Sarcoplasmic reticulum; ATPase, Ca^{2+}-; Chemical modification (Wawrzynów, A. (1203) 60)

FTIR; Trypsin; Electrostatic interaction; Amidine (Buono, R.A. (1204) 124)

Phospholipid; Lipid; Cholesterol; SP-A; Adsorption; Surface film; Surface pressure; Surface tension; Film stability (Yu, S.-H. (1211) 350)

5-Lipoxygenase; Phospholipase A_2; Arachidonic acid; GM-CSF (Krump, E. (1213) 135)

Phospholipid; Lipid synthesis; (*M. gypseum*) (Giri, S. (1215) 337)

Vitamin D; Metalloendopeptidase; Proteinase; mRNA; Chorioallantoic membrane; (Avian) (Elaroussi, M.A. (1217) 1)

Sodium; Fluorescent dye technique; Fura-2; Platelet; (Human) (Tepel, M. (1220) 248)

Kinase; Calmodulin; Sequence; Expression; (Rat heart) (Edman, C.F. (1221) 90)

Cell differentiation; 1,25-Dihydroxyvitamin D-3; Keratinocyte (Van Leeuwen, J.P.T.M. (1221) 167)

Iris sphincter smooth muscle; IP_3 5-phosphatase; IP_1 monophosphatase; Lithium; Protein phosphorylation; Okadaic acid; Muscle relaxation (Wang, X.-L. (1222) 27)

Adenosine; Phagocytosis; cyclic AMP; F-actin; Fc receptor; Neutrophil (Zalavary, S. (1222) 249)

Proteinase; Proteinase inhibitor; Liver; Phospholipase; Protein kinase C; Leupeptin; (Hepatocyte); (Rat) (Benistant, C. (1223) 84)

Apoptosis; Chelator; Cell death; Magnesium (Kluck, R.M. (1223) 247)

Calcium binding protein; Pinealocyte; Glial cell; Western blot (Pochet, R. (1223) 318)

Intermediate filament; Glial fibrillary acidic protein; Assembly; S100 protein (Bianchi, R. (1223) 354)

Keratinocyte; Endothelin-1; Receptor; (Human) (Yohn, J.J. (1224) 454)

Neonatal cardiac myocyte; α_1-Adrenergic receptor; Inositol 1,4,5-trisphosphate; Cardiac hypertrophy (Hansen, C.A. (1224) 517)

Mitochondrion; Contact site; (Langendorff rat heart) (Bakker, A. (1224) 583)

Ischemia; Tri-Calciphor; Mitochondrion; Calcium ionophore; Prostaglandin B_1 (Uribe, S. (1225) 144)

Osteocalcin; Lead; Toxicity; NMR (Dowd, T.L. (1226) 131)

Alloxan; Diabetes mellitus; Hydrogen peroxide; Verapamil (Kim, H.-R. (1227) 87)

Calcium binding
Troponin; Fluorescence; ATPase; (Skeletal muscle) (Liou, Y.-M. (1202) 92)

Annexin I; Site-directed mutagenesis; Phospholipid (Travé, G. (1205) 215)

α-Actinin; Flow dialysis; Secondary structure; (Chicken gizzard) (Wenegieme, E.F. (1205) 308)

Mutagenesis; Protein kinase; Calmodulin; Molecular dynamics; Protein engineering (Lukas, T.J. (1223) 341)

Calcium binding protein
Duodenum; Ubiquitin; Calcium transport; Small intestine; (Rat) (Hubbard, M.J. (1200) 191)

Calcium; Calreticulin; Endoplasmic reticulum; (Bovine); (Brain) (Liu, N. (1202) 70)

S100 protein; Calcyclin; Dimerization; Covalent and non-covalent dimer (Wojda, U. (1209) 248)

Caltractin; cDNA; Dynein regulatory complex; (Testis); (Mouse) (Ogawa, K. (1216) 126)

Neurocalcin; EF hand; Spinal cord; Dorsal root ganglion; Muscle spindle (Okazaki, K. (1223) 311)

Pinealocyte; Calcium; Glial cell; Western blot (Pochet, R. (1223) 318)

S100C; Cytoskeleton; Annexin I; Protein kinase C; Affinity chromatography (Naka, M. (1223) 348)

Alzheimer's disease (Föhr, U.G. (1223) 391)

Calcium catalyzed lipid peroxidation
Apolipoprotein–lipid association; Tryptophan residue; Apo HDL; Apo B (Shoukry, M.I. (1210) 355)

Calcium channel
Calcium ion; Potassium ion; Chorionic gonadotropin; Placental lactogen; Placenta; (Human) (Meuris, S. (1220) 101)

Calcium channel blocker
Ischemia; Methoxyverapamil (Rose, U.M. (1226) 291)

Calcium chloride
Denaturation; Cytochrome *c*; Guanidine (Ahmad, Z. (1207) 223)

Calcium crystal
Arthritis; Metalloprotease; Collagen; Adenyl cyclase (McCarthy, G.M. (1226) 97)

Calcium current
Gadolinium; Cadmium; Stretch-activated channel (Lacampagne, A. (1191) 205)

Calcium dependence
Annexin; Lung; Phospholipid-binding protein; (Rabbit) (Tsao, F.H.C. (1213) 91)

Calcium dependent inactivation
Patch clamp; Potassium ion channel; Adenosine triphosphate; Skeletal muscle; (Mouse) (Hehl, S. (1190) 257)

Calcium-dependent K channel
KCl co-transport; Cell dehydration; Sickle cell anaemia; Erythrocyte (Apovo, M. (1225) 255)

Calcium-dependent protein kinase
Lipid transfer protein; Phosphorylation; (Wheat) (Neumann, G.M. (1209) 183)

Calcium depletion
Photosynthesis; Photosystem II; Thermoluminescence; EPR (Johnson, G.N. (1184) 85)

Calcium entry
Hepatocyte; 2,5-Di(*tert*-butyl)hydroquinone; Thapsigargin; Inositol phosphate; Signaling (Kass, G.E.N. (1223) 226)

Calcium influx
Enzyme inhibition; Lipoxygenase; Cytochrome *P*-450 (Ekokoski, E. (1223) 274)

Calcium ion
Mitochondrial damage; 5-Aminolevulinic acid; Reactive oxygen species; Protein oxidation (Vercesi, A.E. (1188) 86)

Adsorption enthalpy; Bilayer membrane; Binding constant; Titration calorimetry; Lanthanum ion (Lehrmann, R. (1189) 89)

Langmuir-Blodgett-Kuhn monolayer; Phase separation; Aging; Lipid monolayer; EELS; Electron microscopy (Lieser, G. (1192) 14)

Cytolysin; Colloid-osmotic hemolysis; Inhibition; Hemolysis; (*V. vulnificus*) (Park, J.-W. (1194) 166)

Hepoxilin A_3; Hepoxilin B_3; Potassium ion; Second messenger system (Pace-Asciak, C.R. (1215) 1)

Calcium channel; Potassium ion; Chorionic gonadotropin; Placental lactogen; Placenta; (Human) (Meuris, S. (1220) 101)

Seminal plasmin; Mammalian cell lysis (Murti, T.R. (1221) 109)

Potassium ion conductance; Calmodulin; Colonic epithelial cell (Fogg, K.E. (1221) 185)

Cholecystokinin; Protein kinase C; cyclic AMP; Bombesin (Chang, C.H. (1221) 339)

Calcium ion binding
Sarcoplasmic reticulum; ATPase, Ca^{2+}-; Protein conformational change; Protein fluorescence; FTIR; Caged compound (Georg, H. (1188) 139)

Calcium ion/calmodulin-dependent protein kinase II
Alternative splicing form; Maternal expression; *(Drosophila)* (Takamatsu, Y. (1220) 188)

Calcium ion, cytosolic free
Neuroparsin; 5-Hydroxytryptamine; Protein kinase C; cyclic AMP; cyclic GMP; (Rectal cell); (African locust) (Fournier, B. (1220) 181)

Anoxia; pH; Aequorin; LDH; Fructose (Gasbarrini, A. (1220) 277)

Calcium ion dependence
Potassium ion channel, SV type; Voltage dependence; Multichannel analysis; Perfusion pipette; Vacuolar membrane; Tonoplast; (*C. rubrum*) (Reifarth, F.W. (1192) 79)

Annexin VI; Membrane-binding; (Rat liver) (Tagoe, C.E. (1192) 272)

cDNA clone; Protein kinase I; Calmodulin dependence; (Rat) (Cho, F.S. (1224) 156)

Calcium ion dependent
Phospholipase A_2; Heart; Cloning (Chen, J. (1215) 115)

Calcium ion entry
Thapsigargin; Myosin light chain kinase; Wortmannin; Tumor promoter; (Human platelet) (Hashimoto, Y. (1220) 37)

Calcium ion inflow
Hepatocyte; Vasopressin; Gadolinium; SK&F 96365; (Rat) (Fernando, K.C. (1222) 383)

Calcium ion influx, receptor mediated
Endothelial cell; Histamine; Intracellular calcium ion oscillation (Oike, M. (1222) 287)

Calcium ion, intracellular
Calcium ion pump; Inhibitor; Bis-phenol; Mobilization of calcium; (Endoplasmic reticulum) (Brown, G.R. (1195) 252)

Cardiomyocyte; Magnesium ion, intracellular; pH, intracellular; Fluorescence; NH_4Cl pulse; Carbon dioxide/bicarbonate solution; Metabolic inhibition; (Rat) (Li, H.-y. (1222) 164)

Thyrotropin; Phospholipase C; Inositol 1,4,5-trisphosphate; Arachidonic acid; (Thyroid cell); (Rat) (Wang, X.-D. (1223) 101)

Cytoskeleton; NADPH oxidase; Secretory vesicle; Desensitization; Signal transduction; (Leukocyte) (Lundqvist, H. (1224) 43)

Calcium ion, intracellular concentration
Parathyroid hormone; Sodium/phosphate cotransport; cyclic AMP; Protein kinase A; Protein kinase C; Myelin basic kinase; (Kidney cell); (Opossum) (Quamme, G. (1223) 107)

Calcium ionophore
Ischemia; Tri-Calciphor; Mitochondrion; Calcium; Prostaglandin B_1 (Uribe, S. (1225) 144)

Calcium ionophore A23187
Melittin; Phorbol myristate acetate; Epidermal growth factor; Protein tyrosine kinase; Protein tyrosine phosphatase; Fibroblast; (Human) (Errasfa, M. (1222) 471)

Arachidonic acid; Phorbol myristate acetate; Phospholipase A_2; DMSO-induced differentiation; (U937 histiocytic lymphoma cells) (Rzigalinski, B.A. (1223) 219)

Calcium ion oscillation
Hormone induction; Signal transduction; Second messenger; Cytosolic calcium (Stucki, J.W. (1183) 453)

Calcium ion pump
Inhibitor; Bis-phenol; Mobilization of calcium; Calcium ion, intracellular; (Endoplasmic reticulum) (Brown, G.R. (1195) 252)

Calcium ion release
Calsequestrin; Sarcoplasmic reticulum; Butyric acid; Calcium ion storage (Papazafiri, P. (1223) 333)

Calcium ion requirement
PI-PLC; Hetero oligmer; (*Streptomyces*) (Iwasaki, Y. (1214) 221)

Calcium ion storage
Calsequestrin; Sarcoplasmic reticulum; Butyric acid; Calcium ion release (Papazafiri, P. (1223) 333)

Calcium ion transport
Mitochondrion; Heavy metal ion; Alternative respiratory chain; (*Euglena*) (Uribe, A. (1186) 107)

Erythrocyte; ATPase, (Ca^{2+} + Mg^{2+})-; EGTA; Chromatography; Intracellular calcium ion (Yingst, D.R. (1189) 113)

Nitrendipine; Valinomycin; Sarcoplasmic reticulum; ATPase, Ca^{2+}-; Ionophore; (Rat) (Beeler, T.J. (1189) 189)

Brush-border membrane vesicle; 1,25-Dihydroxyvitamin D_3; Myosin I (Kaune, R. (1190) 329)

ATPase, Ca^{2+}-; Ethanol; Alcohol; Calmodulin; Erythrocyte; (Human) (Benaim, G. (1195) 141)

Calcium ion uptake
Histamine release; Tyrosine kinase inhibitor; Basophilic leukemia cell; Antigen stimulation; (Rat) (Teshima, R. (1221) 37)

Calcium mobilization
PAF; Phosphoinositide metabolism; Cerebral microvascular endothelial cell; Triazolodiazepine (WEB 2086); (Calf) (Lin, A.-Y. (1224) 323)

Calcium oxidation
Lipid peroxide; Lipoprotein fluorescence; Apolipoprotein immunoreactivity; Atherosclerosis (Chiu, H.-C. (1225) 200)

Calcium/phospholipid binding protein
Alternative gene splicing; Annexin VI isoform (Kaetzel, M.A. (1223) 368)

Calcium pump
Proton ejection; Sarcoplasmic reticulum (Da Costa, A.G. (1189) 181)

Sarcoplasmic reticulum; Cardiac muscle; Muscle; Fast skeletal muscle; Fluoride (Hawkins, C. (1191) 231)

Uncoupled transport; Cotransport; Mutation; Lactose permease; Transport kinetics (Krupka, R.M. (1193) 165)

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Calcium transport
Calcium-binding protein; Duodenum; Ubiquitin; Small intestine; (Rat) (Hubbard, M.J. (1200) 191)

Calcyclin
Calcium binding protein; S100 protein; Dimerization; Covalent and noncovalent dimer (Wojda, U. (1209) 248)

Caldesmon
Thin filament; Smooth muscle; (Vertebrate) (Lehman, W. (1203) 53)

Caldesmon fragment
Actin polymerization; Actin binding site (Makuch, R. (1206) 49)

Calmodulin
Chemoreception; Cilia; Calcium; Olfactory reception; Olfactory signal transduction (Lo, Y.H. (1192) 153)

ATPase, Ca^{2+}-; Calcium ion transport; Ethanol; Alcohol; Erythrocyte; (Human) (Benaim, G. (1195) 141)

Protein 4.1; Band 3; Glycophorin; Erythrocyte membrane (Lombardo, C.R. (1196) 139)

Calmodulin *N*-methyltransferase; Trimethyllysine; Protein methylase III; Protein methylation; (*Paramecium*) (Pech, L.L. (1199) 183)

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Taurine; Cell volume; Cerebral cortex; Anion transport; (Rat) (Law, R.O. (1221) 21)

Calcium; Kinase; Sequence; Expression; (Rat heart) (Edman, C.F. (1221) 90)

Potassium ion conductance; Calcium ion; Colonic epithelial cell (Fogg, K.E. (1221) 185)

Calcium binding; Mutagenesis; Protein kinase; Molecular dynamics; Protein engineering (Lukas, T.J. (1223) 341)

Calmodulin antagonist
Leucine transport; System L; pH sensitivity; Choriocarcinoma cell; Placenta (Brandsch, M. (1192) 177)

Glycine transport; Sodium chloride dependence; Stoichiometry; Sarcosine; GLYT 1; (Choriocarcinoma cell) (Liu, W. (1194) 176)

Calmodulin binding
NAP-22; Myristoylation; Baculovirus; Liposome (Maekawa, S. (1218) 119)

Calmodulin dependence
cDNA clone; Protein kinase I; Calcium ion dependence; (Rat) (Cho, F.S. (1224) 156)

Calmodulin-dependent protein kinase
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Calmodulin *N*-methyltransferase
Calmodulin; Trimethyllysine; Protein methylase III; Protein methylation; (*Paramecium*) (Pech, L.L. (1199) 183)

Calorimetry
Local anesthetic; Lipid bilayer; Hydrogen bond; Hydrophobic effect; FTIR (Ueda, I. (1190) 421)

Calpactin I
Annexin; Glial filament; S100 protein; Interaction; Acrylodan (Bianchi, R. (1223) 361)

Calpain
ATPase, Na^+/K^+-; Cathepsin D; Multicatalytic proteinase; Proteinase; Lysosome; Oxidant (Zolotarjova, N. (1192) 125)

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Calpastatin; Corticosterone; Growth factor; Myogenesis; Proteolysis, Ca^{2+}-dependent (Cottin, P. (1223) 170)

Protein kinase C; Platelet; Down-regulation; Secretion (Patel, Y. (1224) 480)

Calpastatin
Calpain; Corticosterone; Growth factor; Myogenesis; Proteolysis, Ca^{2+}-dependent (Cottin, P. (1223) 170)

Calpeptin
Platelet; Activation; Microparticle; Cytoskeleton; (Filopod) (Bassé, F. (1190) 217)

Calreticulin
Reticuloplasmin; Protein disulfide isomerase; Mammary gland; Milk lipid globule (Ghosal, D. (1200) 175)

Calcium; Calcium binding protein; Endoplasmic reticulum; (Bovine); (Brain) (Liu, N. (1202) 70)

Calretinin
Immunocytochemistry; RNAase protection assay; Western blot; Hybridization, in situ; (Rat testis); (Leydig cell) (Strauss, K.I. (1219) 435)

Calsequestrin
Sarcoplasmic reticulum; Butyric acid; Calcium ion storage; Calcium ion release (Papazafiri, P. (1223) 333)

Caltractin
Calcium-binding protein; cDNA; Dynein regulatory complex; (Testis); (Mouse) (Ogawa, K. (1216) 126)

Calycin
Lipocalin; Inverse folding; Protein sequence; Protein structure (Sansom, C.E. (1208) 247)

Calyculin A
Serotonin release; Phosphatase inhibitor; Okadaic acid; (Basophilic leukemia cell); (RBL-2H3 cell); (Rat) (Sakamoto, N. (1221) 291)

N-CAM
Cell adhesion; Fodrin; Spectrin (Woo, M.K. (1191) 173)

Camptothecin
DNA topoisomerase I; Phosphorylation; 12-*O*-Tetradecanoylphorbol 13-acetate; TPA; Epidermal growth factor; Insulin; (Fibroblast); (Hepatoma cell); (Mouse) (Samuels, D.S. (1223) 77)

Canalicular transport
ATP hydrolysis; ATP-dependent transport; Peptide; (Rat liver) (Ziegler, K. (1196) 209)

Cancer
Galactosyltransferase; Cell proliferation; Salivary gland; Protein kinase (Kerr, M. (1218) 375)

Cancer gene
Tumor suppressor gene; Retinoblastoma (Feinstein, R. (1218) 82)

Cannabinoid
Δ^9-Tetrahydrocannabinol; Marijuana; Protein kinase C; Phorbol-12,13-dibutyrate; (Forebrain) (Hillard, C.J. (1220) 163)

CANNTG motif
Reg gene; Luciferase assay; Gel shift assay; (Rat) (Miyashita, H. (1219) 241)

Captive bubble method
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Captured volume
Interdigitation; Liposome; Drug delivery (Ahl, P.L. (1195) 237)

Carbacephem
β-Lactam; Loracarbef; Cefixime; Peptide transport; Caco-2; (Human intestine) (Dantzig, A.H. (1191) 7)

Carbachol
T_{84} cell; Intestine; Epithelial cell; Chloride secretion; (Human) (McEwan, G.T.A. (1220) 241)

Carbamoyl-phosphate:glucose phosphotransferase
Glucose-6-phosphatase; Microsome; Inorganic pyrophosphatase; 3-Mercaptopicolinic acid; (Rat liver) (Foster, J.D. (1208) 222)

Carbamylcholine
Pepsinogen secretion; Protein kinase C isoform, α-, ζ- (Raffaniello, R.D. (1224) 551)

Carbapenem resistance
Metalloenzyme; β-Lactamase (Walsh, T.R. (1218) 199)

Carbohydrate
Testicular hyaluronidase; Transglycosylation; Enzyme kinetics; Computer modeling (Cramer, J.A. (1200) 315)

Carbohydrate receptor
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Carbohydrate repertoire
Acetylcholinesterase; Sensitivity to magnesium ion; Asymmetric form; Globular form; Enzyme inhibition (Inestrosa, N.C. (1208) 286)

Carbohydrate structure
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Carbohydrate transport
Enzyme II; Phosphotransferase; Phospho*enol*pyruvate; Primary transport system; (Bacteria) (Lengeler, J.W. (1188) 1)

Carbon catabolite regulation
Transcription regulation; Ubiquinol cytochrome *c* oxidoreductase; QCR7; APA2; (*K. lactis*) (Mulder, W. (1219) 719)

Carbon catabolite repression
Transcription regulation; Ubiquinol cytochrome *c* oxidoreductase; FPS1; QCR8; (*S. cerevisiae*); (*K. lactis*) (Mulder, W. (1219) 713)

Carbon dioxide/bicarbonate solution
Cardiomyocyte; Magnesium ion, intracellular; Calcium ion, intracellular; pH, intracellular; Fluorescence; NH_4Cl pulse; Metabolic inhibition; (Rat) (Li, H.-y. (1222) 164)

Carbonic anhydrase
Vitamin D; Calcium; Embryonic development; Chorioallantoic membrane; Vitamin D receptor; Acetazolamide (Elaroussi, M.A. (1192) 1)

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5(6)-Carboxyfluorescein
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Photosystem II; Iron-quinone complex; EPR (Petrouleas, V. (1188) 271)

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Cardiolipin synthase
Cardiolipin; Phosphoglyceride; Mixed micelle; Phosphatidylglycerol (Ragolia, L. (1214) 323)

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Fatty acid oxidation; Acetyl-CoA carboxylase; Carnitine palmitoyltransferase 1; Malonyl-CoA; Carnitine; Coenzyme A; Beta oxidation; Ischemia (Lopaschuk, G.D. (1213) 263)

Carnitine acyltransferase
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Carnitine palmitoyltransferase 1
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Catechol estrogen
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CCK-A receptor
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CD38
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Cefuroxime-hydrolyzing β-lactamase
Cefotaxime-hydrolyzing β-lactamase; Clavulanic acid; Amino acid sequence; Class A β-lactamase; (*P. vulgaris*) (Péduzzi, J. (1207) 31)

293 cell
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G_1; Proliferation; Insulin; Insulin-like growth factor; Daidzein; Casein kinase 2; MAP2 kinase (Higashi, K. (1221) 29)

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Cell dehydration
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Cell dielectric property
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Cell differentiation
Electrorotation; Dielectrophoresis; Membrane capacitance; Cell dielectric property; Leukemia; Cell surface morphology (Wang, X.-B. (1193) 330)

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Calcium; 1,25-Dihydroxyvitamin D-3; Keratinocyte (Van Leeuwen, J.P.T.M. (1221) 167)

Brown adipocyte; Uncoupling protein; C/EBPα; Glucose transporter; Dexamethasone; (Rat) (Shima, A. (1223) 1)

Cell division
Cell cycle; Cyclin; Polymerase chain reaction; (*Arabidopsis thaliana*) (Day, I.S. (1218) 115)

Cell electrodynamics
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Cell electropermeabilization
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Cellfree system
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Cell membrane
Dielectrophoresis; Cell electrodynamics; Membrane capacitance; Induced electric dipole (Mahaworasilpa, T.L. (1193) 118)

Stomatin; Cation transport; Erythrocyte; Inborn error; Stomatocytosis (Stewart, G.W. (1225) 15)

Cell modulation
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Cell proliferation
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Proteinase inhibitor; Urinary trypsin inhibitor; Mitogen; Growth inhibitor; Cell-surface proteinase; (Human) (Perry, J.K. (1221) 145)

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Cell substrate adhesion
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Cell surface morphology
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Cell-surface proteinase
Cell proliferation; Proteinase inhibitor; Urinary trypsin inhibitor; Mitogen; Growth inhibitor; (Human) (Perry, J.K. (1221) 145)

Cell swelling
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Cellular cholesterol processing
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Cellular receptor
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Cellular retinol binding protein
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Ceramide monosaccharide
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Taurine; Cell volume; Anion transport; (Rat) (Law, R.O. (1224) 377)

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Charge separation
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Photosystem II; Charge recombination; Reaction center; (*C. reinhardtii, P. sativum*) (Giorgi, L.B. (1186) 247)

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Chloroperoxidase compound I
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Chlorophyll *a* fluorescence
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Chlororespiration
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Receptor; Kinetics; (Pancreas) (Pandya, P.K. (1224) 117)

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***cis*-acting sequence**
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***Cis*-unsaturated fatty acid**
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Clavulanic acid
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Clp proteinase
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CoA-dependent transacylation
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CoASH
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Codon usage
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Cold adaptation
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Chondrocyte; Limb development; Cartilage; Gene expression; Endochondral ossification; (Mouse) (Abe, N. (1204) 61)

Rat tail tendon; Methylene blue; Photosensitizer; Photo-oxidation; Cross-linking (Ramshaw, J.A.M. (1206) 225)

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Collagen cDNA; cDNA; Invertebrate collagen; Procollagen propeptide; (Sea urchin) (Tomita, M. (1217) 131)

Aggrecan; Cartilage; Development; Proteoglycan; Skeleton; Tenascin; (Mouse) (Glumoff, V. (1219) 613)

Phospholipase D; Platelet aggregation (Chiang, T.M. (1224) 147)

Gene expression; Proteoglycan; Extracellular matrix; Lysosome; Aspartylglucosaminuria (Määttä, A. (1225) 264)

Arthritis; Metalloprotease; Calcium crystal; Adenyl cyclase (McCarthy, G.M. (1226) 97)

Collagenase
Autolytic fragment; (Human) (Bigg, H.F. (1208) 157)

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Collagenase/gelatinase, 92 kDa type IV
Metalloproteinase; Primary structure; Expression; Activation; Substrate specificity; (*E. coli*) (Pourmotabbed, T. (1204) 97)

Collagen biosynthesis
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Collagen cDNA
Collagen; cDNA; Invertebrate collagen; Procollagen propeptide; (Sea urchin) (Tomita, M. (1217) 131)

Collagen degradation
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Collagen secretion
Collagen, type I; Collagen, type III; Collagen biosynthesis; Carotid artery; Cerebral aneurysm; (Human) (Majamaa, K. (1225) 48)

Collagen, type I
Collagen, type III; Collagen biosynthesis; Collagen secretion; Carotid artery; Cerebral aneurysm; (Human) (Majamaa, K. (1225) 48)

Collagen, type III
Collagen, type I; Collagen biosynthesis; Collagen secretion; Carotid artery; Cerebral aneurysm; (Human) (Majamaa, K. (1225) 48)

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Colloid-osmotic hemolysis
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Dihydrodiol dehydrogenase; cDNA sequence; (Human) (Ciaccio, P.J. (1186) 129)

Cathepsin B; Cystatin C; Tumor invasion; Neutrophil elastase (Keppler, D. (1226) 117)

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Thioredoxin; ADF; Leukemia; Thioredoxin reductase; (Liver) (Gasdaska, P.Y. (1218) 292)

Ribosomal protein; L37; Subtractive cDNA hybridization; (Human) (Barnard, G.F. (1218) 425)

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Potassium ion conductance; Calcium ion; Calmodulin (Fogg, K.E. (1221) 185)

Colony-stimulating factor
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Angiotensin converting enzyme; Peripheral blood monocyte; Alveolar macrophage; Polymerase chain reaction (Lazarus, D.S. (1226) 12)

Compatible solute
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Competition assay
NAD(P)H:quinone oxidoreductase gene; Antioxidant responsive element; Glutathione *S*-transferase gene; Protein characterization; Gel mobility shift assay; (Human); (HeLa cell) (Wang, B. (1219) 645)

Competitive inhibition
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Liposome; Blood protein; Drug carrier (Devine, D.V. (1191) 43)

Complement activation
Liposome (Marjan, J. (1192) 35)

Complementary peptide
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Complement system
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Complex
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Amphotericin; Water; Sterol (Langlet, J. (1191) 79)

Complex Fe-S cluster
Electron paramagnetic resonance; Prismane protein; [6Fe-6S] cluster; Redox titration; Molecular cloning; *(Desulfovibrio)* (Van den Berg, W.A.M. (1206) 240)

Complex formation
Phospholipid surface; α-Thrombin; Blood coagulation (Kalafatis, M. (1227) 113)

Complex I
NADH:ubiquinone reductase; Ubiquinone; Proton pumping; Respiratory inhibitor (Degli Esposti, M. (1187) 116)

NADH:ubiquinone oxidoreductase; Gene disruption; Assembly; (*N. crassa)* (Fecke, U.S.W. (1187) 121)

MPP^+; NADH dehydrogenase; NADH-Q oxidoreductase; Q_{10}; Piericidin A; Rotenone; Ubiquinone (Singer, T.P. (1187) 198)

Complex II
Mitochondrion; Succinate dehydrogenase; Fumarate reductase; EPR, pulsed; ESEEM; (Plant); (*S. platensis*) (Shergill, J.K. (1185) 43)

Complex III
Mitochondrion; Rieske protein; EPR; ESEEM; ENDOR (Shergill, J.K. (1185) 35)

Complex I, 21 kDa subunit
Complex I, 24 kDa subunit; cDNA sequence; (*Neurospora*) (Azevedo, J.E. (1188) 159)

Complex I, 24 kDa subunit
Complex I, 21 kDa subunit; cDNA sequence; (*Neurospora*) (Azevedo, J.E. (1188) 159)

Complex reassembly
Apolipoprotein A-I; Egg yolk phosphatidylcholine; Sodium oleate; Small lipid-poor particle (Luna-Chavez, C. (1215) 141)

Computer graphics
Viologen; Cyanobacterium; Ferredoxin-$NADP^+$ reductase; Electron transfer; Chemical modification (Gómez-Moreno, C. (1187) 236)

Cyclodextrin; Inclusion complex; Crystal structure analysis; NMR; Indomethacin (Myles, A.M.C. (1199) 27)

Computer modeling
Testicular hyaluronidase; Transglycosylation; Enzyme kinetics; Carbohydrate (Cramer, J.A. (1200) 315)

Computer simulation
Lipid bilayer; Monte Carlo method; Membrane dynamics (Van der Heide, U.A. (1195) 1)

Long-circulating liposome; Liposome; Poly(ethylene glycol); Fluorescence quenching; Anti-fluorescein antibody (Torchilin, V.P. (1195) 11)

DNA structure; DNA; Long-range correlation; DNA-fractal (Chatzidimitriou-Dreismann, C.A. (1217) 181)

Concanavalin A
Platelets; Small G-proteins; rap1B; Cytoskeleton; cAMP (Ramaschi, G. (1199) 20)

α-D-Glycoside; Monosaccharide binding; NMR, ^{1}H-; Correlation time (Troganis, A. (1206) 215)

Conditioned medium
Immortal fibroblast; Vascular endothelial growth factor (Sugihara, T. (1224) 365)

Conductivity
Myelin tube; Phosphatidylcholine; Bending elasticity; Bioelectric field effect; Model membrane (Mishima, K. (1191) 157)

Confocal microscopy
Endocytosis; Lysozyme; Lactalbumin; Anoxia; Proteolysis; (Kidney) (Simonnet, H. (1189) 152)

Transmembrane potential; DiS-C_3(3); 3,3'-Dipropylthiacarbocyanine; Spectral analysis; Flow cytometry (Plášek, J. (1196) 181)

Conformation
Inclusion body; Growth hormone; Detergent–protein interaction; (Porcine) (Cardamone, M. (1206) 71)

Cellular retinol binding protein; Retinol; Dynamics (Rong, D. (1208) 136)

Glycopeptide; T-cell activity; Epitope; Agonist; Antagonist (Otvos Jr., L. (1224) 68)

Conformational stability
β-Lactoglobulin; Site-directed mutagenesis; Retinol binding; Structural perturbation; Conserved residue (Katakura, Y. (1207) 58)

Conformational substate
Cytochrome $P\text{-}450_{cam}$; Low temperature; Proton activity; Cooling rate (Schulze, H. (1183) 491)

Myoglobin; Genetic modification; Resonance Raman; Infrared (Ling, J. (1188) 417)

Conformational transition
Ultraviolet irradiation; PM_2 DNA; Supercoiling (Peterson, C.A. (1216) 265)

Conformation change
Cytochrome *c* oxidase; Flash photolysis; Ligand; Electron transfer; Proton transfer (Hallén, S. (1184) 207)

Conformation of α-actinin
Skeletal muscle α-actinin (Kuroda, M. (1205) 97)

Connexin32
Gene regulation; Promoter; Enhancer; DNA-binding protein; Luciferase assay (Bai, S. (1216) 197)

Conserved domain
Hammerhead ribozyme; Ribozyme; Synthesis (Hendry, P. (1219) 405)

Conserved residue
β-Lactoglobulin; Site-directed mutagenesis; Retinol binding; Conformational stability; Structural perturbation (Katakura, Y. (1207) 58)

Constitutive expression
Heat shock protein; cDNA; (*A. nidulans*) (Kusakabe, T. (1219) 555)

Contact site
Carnitine acetyltransferase; Myocardium; Mitochondrion; Cytochemistry (Bakker, A. (1185) 97)

Mitochondrion; Calcium; (Langendorff rat heart) (Bakker, A. (1224) 583)

Continuous culture
Adaptation; Kinetics; Non-equilibrium thermodynamics; Oligotrophy; Sugar analysis; *E. coli* (Senn, H. (1201) 424)

Contractile protein
Troponin; cDNA sequence (Zhu, L. (1217) 338)

Contractility
Anesthetic, volatile; Halothane; Isoflurane; Enflurane; Calcium; Ryanodine receptor; (Heart) (Lynch III, C. (1194) 109)

Contraction
Cell culture; Biophysics; Cell signalling (Eastwood, M. (1201) 186)

Cooling rate
Cytochrome $P\text{-}450_{cam}$; Conformational substate; Low temperature; Proton activity (Schulze, H. (1183) 491)

Cooperative interaction
Enzyme kinetics; Product inhibition; Reversible reaction (Duggleby, R.G. (1209) 238)

Cooperativity
Chloroplast coupling factor; ATPase, Ca^{2+}-; Unisite catalysis; Alternating site; Data simulation (Andralojc, P.J. (1184) 54)

Cytochrome c_3; Heme protein; NMR, two-dimensional; Redox-Bohr effect; Redox mechanism (Turner, D.L. (1187) 232)

Actin; ATP hydrolysis; Fluorescence (Ohm, T. (1208) 8)

Coordinated expression
Proteasome subunit; cDNA cloning; Northern blot analysis; (*X. laevis*) (Fujii, G. (1216) 65)

Copper
α-Tocopherol; Iron; Lipid peroxidation (Yoshida, Y. (1200) 85)

Cartilage; Glycoprotein; Chondrocyte; Metabolism (Fife, R.S. (1201) 19)

Iron; Lipid peroxidation; Metal chelator; Free radical; Redox potential (Yoshida, Y. (1210) 81)

Copper center
Cytochrome oxidase; Cu_A center; Respiratory chain; (*P. denitrificans*) (Lappalainen, P. (1187) 222)

Copper(I) thionein
Superoxide dismutation; Thiyl radical; EPR; (Yeast) (Deters, D. (1208) 344)

Copper metabolism
Membrane-bound copper; Endosome; Membrane protein; Erythroleukemia cell (Davidson, L.A. (1221) 1)

Copper protein
Plastocyanin; *petE*; Prochlorophyte; Transit peptide; Photosynthesis; (*Prochlorothrix*) (Arudchandran, A. (1188) 447)

Copper reduction
NADH oxidase; Plasma membrane; Copper transport; (Rat hepatocyte) (Van den Berg, G.J. (1195) 276)

Copper thionein
Oxygen radical; Reduced oxygen species; Pulse radiolysis; Radical scavenging; Oxidative stress (Felix, K. (1203) 104)

Copper transport
NADH oxidase; Plasma membrane; Copper reduction; (Rat hepatocyte) (Van den Berg, G.J. (1195) 276)

Copper-tyrosinate charge-transfer complex
dUTPase; Tyrosine modification; Nitrotyrosine spectral titration; Tyrosinate charge-transfer complex, copper; (*E. coli*) (Vertessy, B.G. (1205) 146)

Coproporphyrinogen oxidase
cDNA cloning; Heme synthesis; Mitochondrion; (Human) (Taketani, S. (1183) 547)

Core antenna complex
B820 subunit; Hydrogen bonding; Band shift; Resonance Raman spectroscopy; (*Rs. rubrum* G9) (Visschers, R.W. (1183) 369)

Co-reconstitution
ATP-synthase; δ-Subunit; ϵ-Subunit; Inhibitor protein; Temperature dependence; (*M. luteus*) (Grüber, G. (1186) 43)

Core particle
Ubiquitin; Histone; Nucleosome (Davies, N. (1218) 187)

Cornea
Lipoxygenase; Polyunsaturated fatty acid; Mass spectrometry; Epithelium; (Human); (Bovine) (Liminga, M. (1210) 288)

Corneal endothelium
ATPase, Na^+/K^+-; Monoclonal antibody; (Bovine) (Guggenheim, J.A. (1189) 127)

Bicarbonate transport; Sodium transport; Membrane vesicle; Drug effect (Wigham, C.G. (1196) 88)

Corn oil
Fish oils (Maxepa); VLDL; LDL; Apolipoprotein B metabolism; LDL receptor (Huff, M.W. (1210) 113)

Correlation time
Concanavalin A; α-D-Glycoside; Monosaccharide binding; NMR, ^1H- (Troganis, A. (1206) 215)

Correlation time distribution
Reversed micelle; Fluorescence anisotropy; Maximum entropy method; Lifetime distribution (Visser, A.J.W.G. (1204) 225)

Corticosterone
Calpain; Calpastatin; Growth factor; Myogenesis; Proteolysis, Ca^{2+}-dependent (Cottin, P. (1223) 170)

Coryneform bacterium
Amino acid transport; Metabolite secretion; Membrane transport; Bacterium (Krämer, R. (1187) 245)

COS cell
5′-Nucleotidase; Glycosylphosphatidylinositol anchor (Furukawa, Y. (1190) 273)

Polyamine; Transport; Methylglyoxal bis(guanylhydrazone); Difluoromethylornihine (Hyvönen, T. (1221) 279)

COS 7 cell
Insulin receptor; Tyrosine kinase; Co-transfection; Insulin resistance; (Human) (Maegawa, H. (1216) 425)

COS cell expression
Muscarinic acetylcholine m3 receptor; cDNA; Acetylcholine m3 receptor; (Bovine) (Lee, P.H.K. (1223) 151)

Cosmid clone
Prostatic acid phosphatase; Androgen regulation; Promoter sequence; (Prostatic cancer cell) (Banas, B. (1217) 188)

Co-solvent
Apo A-I; Reconstituted HDL; Self-association; Circular dichroism; Fluorescence (Leroy, A. (1212) 285)

Co-transfection
Insulin receptor; Tyrosine kinase; Insulin resistance; COS 7 cell; (Human) (Maegawa, H. (1216) 425)

Cotransport
Uncoupled transport; Mutation; Lactose permease; Calcium pump; Transport kinetics (Krupka, R.M. (1193) 165)

Sodium ion/glucose cotransporter; Glucose transport; cDNA sequence; (Kidney) (Pajor, A.M. (1194) 349)

Co-transport mechanism
Active transport; Substrate binding force; Uncoupled transport; Slippage (Krupka, R.M. (1183) 105)

Coumarin
Quinolone; DNA Topoisomerases; Streptomycetes (Störl, K. (1199) 143)

Coupled enzyme
ATPase, Ca^{2+}-; Enzyme inactivation; Enzyme kinetics; Sarcoplasmic reticulum (Corbalán-García, S. (1203) 45)

Coupled reaction
Enzyme-catalyzed reaction; Progress curve; Transient-state kinetics; Enzyme (Duggleby, R.G. (1205) 268)

Coupling
Thermodynamics; Equilibrium constant; Apparent equilibrium constant; Standard formation property; Transformed thermodynamic property (Alberty, R.A. (1207) 1)

Rate limitation; Slip; Metabolic control analysis; Enzyme thermodynamics; Enzyme kinetics (Kholodenko, B.N. (1208) 294)

Coupling mechanism
ATPase; Active transport; Uncoupled transport; Transport kinetics; Binding force (Krupka, R.M. (1193) 179)

COUP transcription factor
Apolipoprotein A-IV; Gene expression; Orphan ligand; HNF-4; (Human) (Ochoa, A. (1210) 41)

Covalent and non-covalent dimer
Calcium binding protein; S100 protein; Calcyclin; Dimerization (Wojda, U. (1209) 248)

Covalent complex
Thymidylate synthase; Slow-binding inhibition (Liu, L. (1209) 89)

Covalent modification
ATPase, Ca^{2+}-; Fluorescence; Resonance energy transfer; Sarcoplasmic reticulum; Cysteine (Baker, K.J. (1192) 53)

Cowpea
Acylhydrolase, lipolytic; Galactolipase; Phospholipase (Sahsah, Y. (1215) 66)

***coxII* gene**
RNA editing; Plant mitochondrion; (*Psilotum nudum*) (Sper-Whitis, G.L. (1218) 218)

CP/MAS
NMR, solid state ^{13}C-; Melanin; 5,6-Dihydroxyindole-melanin; Autooxidation; Quantitative analysis (Hervé, M. (1204) 19)

C-reactive protein
mRNA; Inflammation; Estradiol-17β; (Rat) (Nunomura, W. (1227) 74)

Creatine
Modeling; NMR; Enzyme kinetics (Fedosov, S.N. (1208) 238)

Creatine kinase
Sarcoplasmic reticulum; Glycogen phosphorylase; Phosphoglucomutase; Glycosidase; Myokinase (Cuenda, A. (1194) 35)

o-Phthalaldehyde; Inactivation; Isoindole derivative; (Rabbit muscle) (Sheikh, S. (1203) 276)

Methyl methanethiosulfonate; Enzyme activity; Enzyme modification (Hou, L.-X. (1205) 83)

Kinase; Site-directed mutagenesis; Mutagenesis (Lin, L. (1206) 97)

Secondary structure; Tertiary structure; Fluorescence (Grossman, S.H. (1209) 19)

Mitochondrion; Gene expression; Development; Creatine phosphate shuttle (Payne, R.M. (1219) 33)

Creatine kinase deficiency
CK/PCr system; Phosphocreatine; β-Guanidinopropionic acid; Muscle; Skeletal muscle bioenergetics; (M-CK-deficient mice) (Van Deursen, J. (1185) 327)

Creatine kinase, MM
Nitrothiocyanobenzoic acid cleavage; Thiol accessibility; Denaturation by SDS; Iodoacetamidoethylaminonaphthalenesulfonic acid; Fluorescence energy transfer (Clottes, E. (1209) 171)

Creatine phosphate shuttle
Creatine kinase; Mitochondrion; Gene expression; Development (Payne, R.M. (1219) 33)

Cross-link
Sclerotization; Cuticle; *N*-Acetyldopamine; (*L. migratoria*) (Wybrandt, G.B. (1201) 15)

Crosslinking
Immobilization; Oxygen evolution; Oxygen stabilization; Extrinsic protein (Enami, I. (1185) 75)

Bacterium; Phospholipid; Phosphatidylethanolamine; Domain; Fluid–fluid immiscibility (Roth, M.R. (1190) 91)

Methane monooxygenase; Polyethylene glycol-modified protein; Organic solvent (Jiang, Y. (1201) 76)

Cross-linking
Peroxisome; Peroxisomal targeting signal; Prolyl-endopeptidase (Fransen, M. (1201) 157)

Collagen; Rat tail tendon; Methylene blue; Photosensitizer; Photo-oxidation (Ramshaw, J.A.M. (1206) 225)

RNA binding; eIF-2; Zinc finger (Flynn, A. (1219) 293)

Cross-reactivity
Molecular recognition; Affinity chromatography; Estrogen; Antiserum (Podestà, A. (1200) 291)

Cross-relaxation
NMR; Magnetization transfer; Bovine serum albumin; Bound water; Residence time (Iino, M. (1208) 81)

Cruxrhodopsin-2
Halobacterium; Light-driven proton pump; ATP synthesis; (*Haloarcula*) (Sugiyama, Y. (1188) 287)

Cryobiology
Liposome; Phospholipid; Vesicle; Bilayer; Freezing; Thawing (MacDonald, R.C. (1191) 362)

Cryoprotection
Galactolipid; Non-electrolyte permeability; Osmotic membrane damage; Thylakoid; Trehalose; (Spinach) (Bakaltcheva, I. (1189) 38)

Cryptand
Alkali cation transport kinetics; Competitive transport selectivity; Temperature; Lipid membrane (Mulliert, G. (1193) 263)

Crypt cell production rate
Abdominal radiation; Absorption; Adaptation; Diabetes; Enterocyte turnover time; Intestinal resection; (Jejunum) (Thomson, A.B.R. (1191) 197)

Crystal
Photosystem I; X-ray structure; Photosynthesis; Plastocyanin; Ferredoxin (Fromme, P. (1187) 99)

Crystallin
D-Aspartic acid; Lens; Racemization; Isomerization; (Human) (Fujii, N. (1204) 157)

Galactose; Glucose; Glycation; Lens; Pyridoxal phosphate (Ganea, E. (1226) 286)

α-Crystallin
Heat-shock protein; Elastase inhibition; C-terminal domain (Voorter, C.E.M. (1204) 43)

Surfactant; Chaperone; Aggregation (Carver, J.A. (1204) 195)

β_s-Crystallin
γ-Crystallin; Fluorescence quenching; Tryptophan; Microenvironment (Augusteyn, R.C. (1205) 89)

γ-Crystallin
β_s-Crystallin; Fluorescence quenching; Tryptophan; Microenvironment (Augusteyn, R.C. (1205) 89)

Diabetes; Fructose; Glycation; Lens (Pennington, J. (1226) 163)

ζ-Crystallin
Oxidation; DT-diaphorase; Xenobiotic (Tumminia, S.J. (1203) 251)

Crystallography
Growth hormone; Growth hormone receptor; Mutant; Cytokine (Beattie, J. (1203) 1)

Crystal packing
Ribonuclease A; Electrostatic field (Alexov, E. (1206) 55)

Crystal structure
ε-Trypsin; Autolysis; Electron density map; Activity; (Porcine) (Huang, Q. (1209) 77)

Crystal structure analysis
Cyclodextrin; Inclusion complex; Computer graphics; NMR; Indomethacin (Myles, A.M.C. (1199) 27)

C1s activation
Nil2C2; C1 inhibitor; Immune complex independent (Yamaguchi, K. (1205) 133)

CSF
MPF; C-*mos* proto-oncogene; Cell cycle; Cyclin degradation; Calmodulin-dependent protein kinase (Lorca, T. (1223) 325)

CSF, M-
mRNA; Alternative splicing; PCR; RT-PCR; Interferon γ; (Human) (Ohtsuki, T. (1222) 141)

c-*src*
Genomic structure; Oncogene; (Chicken); (Quail) (Yatsula, B.A. (1218) 473)

***ctaCDE* gene**
Cytochrome-*c* oxidase; Respiratory chain; Thermophile; Cyanobacterium; (*S. vulcanus*) (Sone, N. (1183) 130)

C-terminal domain
α-Crystallin; Heat-shock protein; Elastase inhibition (Voorter, C.E.M. (1204) 43)

C-terminus
Firefly luciferase; Bioluminescence; Protein engineering; Luciferase; (Firefly) (Sala-Newby, G.B. (1206) 155)

CTP: phosphocholine cytidyltransferase
Amino acid sequence; cDNA expression; Polymerase chain reaction; (Erythroleukemia cell); (Human) (Kalmar, G.B. (1219) 328)

CTP:phosphocholine cytidylyltransferase (EC 2.7.7.15)
cyclic AMP-dependent protein kinase; Fetal type II cell; Pulmonary surfactant; Lung; (Rat) (Zimmermann, L.J. (1211) 44)

CTP: phosphoethanolamine cytidylyltransferase
Phospholipid metabolism; Phosphatidylethanolamine synthesis; Substrate specificity; *N*-Methylated phosphoethanolamine substrate; Liver; (Rat) (Vermeulen, P.S. (1211) 343)

Cu_A center
Copper center; Cytochrome oxidase; Respiratory chain; (*P. denitrificans*) (Lappalainen, P. (1187) 222)

Cu-desferal
DNA cleavage (Joshi, R.R. (1199) 285)

Cultured heart cell
Phospholipase C; Prostacyclin production; Cell injury (Pinson, A. (1211) 283)

Cultured human intestinal cell
Biotin uptake; Caco-2 cell; Intestinal transport (Ma, T.Y. (1189) 81)

Cultured muscle cell
Membrane admittance; Electrical capacitance; Myoblast; Myotube (Asami, K. (1190) 129)

Curaremimetic toxin
Circular dichroism; Fourier transform infrared spectroscopy; Immunogenic peptide; (Snake) (Lamthanh, H. (1203) 191)

Curcumin
Epidermal growth factor receptor; Kinase activity; A431 cell (Korutla, L. (1224) 597)

Cushing's disease
Hepatic triacylglycerol lipase; Triacylglycerol lipase; Adrenal; Ovary; Testis; (Human); (Rat) (Verhoeven, A.J.M. (1211) 121)

Cuticle
Sclerotization; *N*-Acetyldopamine; Cross-link; (*L. migratoria*) (Wybrandt, G.B. (1201) 15)

Cuticle protein
Gene cloning; Northern hybridization; S1 nuclease mapping; Juvenile hormone; (*B. mori*) (Nakato, H. (1218) 64)

Cyanide
Cytochrome *c* oxidase; Ligand; Preparation method; Optical absorbance spectroscopy; EPR (Lodder, A.L. (1186) 67)

Cyanide-resistant respiration
Alternative oxidase; Oxygen dependence; Ubiquinone pool (Q-pool); Electron transfer (Ribas-Carbo, M. (1188) 205)

Cyanine dye
Cholinergic receptor; Local anesthetic; Lipid annulus; Torpedinidae (Arias, H.R. (1190) 393)

Heavy atom effect; Liposomes; Photophysics; Photosensitization; Singlet oxygen (Krieg, M. (1999) 149)

Cyanobacterial photosynthesis
Cyclic electron transport; Electron transport; Cyclic photophosphorylation; Ferredoxin-plastoquinone reductase; Photosystem I; (*P. laminosum*) (Manasse, R.S. (1183) 361)

Cyanobacterium
Cytochrome-*c* oxidase; *ctaCDE* gene; Respiratory chain; Thermophile; (*S. vulcanus*) (Sone, N. (1183) 130)

Photosynthesis; Light-harvesting; Energy transfer; Phycobilisome; Photosystem I; (*Synechocystis* 6803) (Mullineaux, C.W. (1184) 71)

Cytochrome; Iron; Mössbauer spectroscopy; Photosystem II; (*P. laminosum*) (Picorel, R. (1184) 171)

Photosystem II; Photosynthesis; Non-heme iron; Reaction center; Quinone; Iron (Vermaas, W. (1184) 263)

ATP synthase, F_0F_1-; Mutagenesis; Subunit *b'* gene; (*Synechocystis* sp.) (Lill, H. (1184) 284)

Nitrate transport; Nitrite transport; *Synechococcus* sp. PCC 7942 (Luque, I. (1184) 296)

Photosynthesis; Photosystem II inhibition; Photochemical apparatus; Pyridazinone; Energy distribution (Srivastava, M. (1186) 1)

Energy transfer; Phycobilisome; Fluorescence relaxation; Subcore particle, 18 S (Gindt, Y.M. (1186) 153)

Photosynthesis; Respiration; Photosystem II; Photosystem I (Vermaas, W.F.J. (1187) 181)

Viologen; Ferredoxin-$NADP^+$ reductase; Electron transfer; Chemical modification; Computer graphics (Gómez-Moreno, C. (1187) 236)

Nitrate transport; Sodium bioenergetics; Symport mechanism (Rodríguez, R. (1187) 250)

Cytochrome *c* oxidase; Respiration; Cytoplasmic (plasma) membrane; Intracytoplasmic (thylakoid) membrane; Localization; Immuno-gold labeling; (*Anacystis nidulans* R2); (*Synechococcus* PCC7942) (Peschek, G.A. (1187) 369)

Photosynthesis; Oxygen evolution; Peroxide; Mass spectrometry; Flash pattern (Bader, K.P. (1188) 213)

Cytochrome b_6f complex; Evolution; Nucleotide sequence; *petB*; Photosynthesis (Kruip, J. (1188) 443)

RNAase P; Catalytic RNA; RNA structure; (*Pseudoanabaena*) (Pascual, A. (1218) 463)

Cyanobacterium, filamentous
Photosystem I; Reaction center protein; *psaA*; *psaB*; (*Anabaena variabilis* ATCC 29413) (Nyhus, K.J. (1185) 247)

Cyanolysis
Thiol-specific reagent; Octopine dehydrogenase; Chemical modification; Catalytic site; Sulfhydryl group (Sheikh, S. (1202) 251)

Cycasin transport
Sodium-dependent glucose transport; Glucose transporter; Methylazoxymethanol; (Kidney); (Intestine) (Hirayama, B. (1193) 151)

Cycle sequencing
DNA sequence; Genetic diversity; Malaria; Membrane protein; PCR (Ramasamy, R. (1227) 28)

Cyclic electron transport
Electron transport; Cyclic photophosphorylation; Ferredoxin-plastoquinone reductase; Cyanobacterial photosynthesis; Photosystem I; (*P. laminosum*) (Manasse, R.S. (1183) 361)

Cyclic phosphate
Acyclonucleotide; Molecular structure; Molecular conformation; X-Ray diffraction; NMR; Antiviral activity (Birnbaum, K.B. (1200) 55)

Cyclic photophosphorylation
Cyclic electron transport; Electron transport; Ferredoxin-plastoquinone reductase; Cyanobacterial photosynthesis; Photosystem I; (*P. laminosum*) (Manasse, R.S. (1183) 361)

Cyclic voltammetry
Nitrite reductase; Ferredoxin; Oxidation-reduction titration; Laser flash photolysis; Protein-protein complex; (Spinach) (Hirasawa, M. (1185) 336)

Cyclin
Cell cycle; Cell division; Polymerase chain reaction; (*Arabidopsis thaliana*) (Day, I.S. (1218) 115)

Cyclin degradation
MPF; CSF; C-*mos* proto-oncogene; Cell cycle; Calmodulin-dependent protein kinase (Lorca, T. (1223) 325)

Cyclodextrin
Inclusion complex; Crystal structure analysis; Computer graphics; NMR; Indomethacin (Myles, A.M.C. (1199) 27)

Cycloheximide
Ethanol; Stimulatory GTP-binding regulatory protein; Gs; S49 murine lymphoma cell; Puromycin (Nakamura, J. (1209) 111)

Cyclooxygenase
Inflammation; PGH synthase; Prostaglandin metabolism; Baculovirus; Gene expression; Recombinant DNA; DNA (Barnett, J. (1209) 130)

Cyclooxygenase-1
Cyclooxygenase-2; Osteoblast; Prostaglandin; Signal transduction (Takahashi, Y. (1212) 217)

Cyclooxygenase-2
Cyclooxygenase-1; Osteoblast; Prostaglandin; Signal transduction (Takahashi, Y. (1212) 217)

Cyclophilin
NMR; Immunophilin; Immunosuppressant; FK506 binding protein; Histidine; pH titration; Acid constant (Yu, L. (1209) 24)

Cyclophilin A
Nucleotide sequence; Peptidyl-prolyl *cis-trans* isomerase; Amino acid sequence; Protein folding; (*Arabidopsis*) (Hayman, G.T. (1219) 536)

Cyclopropene fatty acid
Fatty acid desaturation; Microsome; Baobab seed oil; (Rat liver) (Cao, J. (1210) 27)

Cyclosomatostatin
Bile acid transport system; Binding protein; Two-phase separation; EDTA extraction; (Rat liver) (Wenzel, U. (1193) 17)

Cyclosporin
Mitochondrion; Channel; Voltage; Membrane permeability; Permeability transition pore (Petronilli, V. (1187) 255)

Cyclosporin A
Leucinostatin A; Ionophore; Antibiotic; T lymphocyte; Immunosuppression (Csermely, P. (1221) 125)

α-Adrenergic hormone; Glucose metabolism; Antagonist; Fructose 2,6-bisphosphate level; Lymphocyte; (Rat thymus) (Gualberto, A. (1221) 199)

P-glycoprotein; Blood-brain barrier; Brain capillary endothelial cell; Transendothelial transport (Shirai, A. (1222) 400)

Cylindrical protein
Proteasome; Multicatalytic proteinase; Chymotrypsin-like peptidase activity; Diisopropyl fluorophosphate; Erythrocyte membrane (Khan, M.T. (1209) 215)

CYP2C29
cDNA cloning; Cytochrome *P*-450 (*P*-450 MUT-2); Microsomal aldehyde oxygenase; (Mouse) (Matsunaga, T. (1184) 299)

CYP3A
Aflatoxin B_1; cDNA cloning; CHL cell; Cytochrome *P*-450; Cytotoxicity (Yanagimoto, T. (1201) 405)

Cyp4a–i0
Growth hormone; Testosterone; Cytochrome *P*-450 regulation; Development (Henderson, C.J. (1200) 182)

Cystatin C
Cathepsin B; Tumor invasion; Neutrophil elastase; Colon (Keppler, D. (1226) 117)

Cysteine
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Cystic fibrosis transmembrane conductance regulator (CFTR)
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Cytochrome *P*-450 2C11
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Cytochrome *P*-450 2B1/2B2; Cytochrome *P*-450 2C11; Ethylbenzene induction; Temporal changes in *P*-450 expression; Toluene metabolism (Sequeira, D.J. (1207) 179)

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Δ^6-Desaturation
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Deuteriated linoleic acid
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Diol dehydratase
Adenosylcobalamin; Vitamin B_{12} coenzyme; Pyridyl analog of adenosylcobalamin; Diol dehydrase (Toraya, T. (1204) 169)

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DNA methylation
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Docosapentaenoic acid
Arachidonic acid; Docosahexaenoic acid; Icosanoid; Icosapentaenoic acid; Fish oil; Glyceryl ether; Nutrition; $(n-3)$ Fatty acid; Plasmalogen; Platelet-activating factor; Transacylase (Blank, M.L. (1214) 295)

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Dolichyl phosphate
Free dolichol; Dolichyl fatty acid ester; (Human serum) (Yasugi, E. (1211) 107)

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Duroquinone
Chloroplast; Cytochrome *bf* complex; Electron transport; Plastoquinone; Semiquinone; Duroquinol (Kramer, D.M. (1184) 251)

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EF-1δ
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Eicosa
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***gro*EL**
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Electron spin resonance
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Elongation factor 1α
GTP-binding protein; Elongation factor; Codon usage; Phylogeny; (*S. solfataricus*) (Arcari, P. (1217) 333)

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Enzyme; Specificity; Organic solvent; Regioselectivity (Wescott, C.R. (1206) 1)

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Clathrin; Coated vesicle; Uncoated vesicle; Membrane fluidity; Fluorescence anisotropy; Diphenylhexatriene; Pyrene excimer (Liaubet, A. (1195) 164)

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Endothelin biosynthesis
big-Endothelin; Complementary peptide; Substrate depletion (Zamai, M. (1202) 337)

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Endothelin receptor
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Endothelin; Endothelin receptor; Inhibitory agent (Wu-Wong, J.R. (1224) 288)

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Purple bacterium; Energy transfer; Antenna; Reaction center; (*C. vinosum*); (*C. tepidum*) (Kennis, J.T.M. (1188) 278)

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Enkmelanins
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Enzyme degradation
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Mitochondrion; Complex II; Succinate dehydrogenase; Fumarate reductase; EPR, pulsed; (Plant); (*S. platensis*) (Shergill, J.K. (1185) 43)

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Eukaryotic initiation factor 2B
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Exocytosis
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Fat absorption
Marine fat; $(n-3)$ Polyunsaturated fatty acid; Chylomicron; (Rat) (Christensen, M.S. (1215) 198)

Fat digestion
Bile salt-stimulated lipase; Long-chain polyunsaturated fatty acid; Milk; Newborn infant; (Human) (Chen, Q. (1210) 239)

Fatigue
Bromophenylacylbromide; Nordihydroguairetic acid; Lipase inhibitor; (Muscle) (Bruton, J.D. (1200) 224)

Fat particle
Parenteral fat emulsion; Liposome; Triacylglycerol; Phospholipid; Sterol; NMR (Férézou, J. (1213) 149)

Fatty acid
Energy coupling; Oxidative phosphorylation; Uncoupling; Decoupling; Adenine nucleotide translocase; Cation transport; Thermogenesis (Wojtczak, L. (1183) 41)

(1,3)-β-Glucan synthase; Phospholipase A_2; Fluorescence anisotropy; Antifungal compound; Membrane perturbation (Ko, Y.-T. (1193) 31)

Exocrine secretion; Exocytosis; Chloride transport; Lysophospholipid; Zymogen granule (Gasser, K.W. (1194) 123)

Fatty acid synthetase; Acylated protein; Purple membrane; Red membrane; (Archaebacterium) (Pugh, E.L. (1196) 38)

Lipid vesicle; Phase behavior; Membrane fusion; Phosphatidylcholine; Drug carrier; Mixed bilayer (Zellmer, S. (1196) 101)

Mycobacterium; Glycolipid; Gas chromatography (Hartmann, S. (1201) 339)

Palmitic acid; Oleic acid; Dietary cholesterol; LDL; HDL; Kinetics; (Cebus monkey) (Khosla, P. (1210) 13)

Eicosapentaenoic acid; Docosahexaenoic acid; Ethyl ester; Platelet; Monocyte; (Red blood cell); (Human) (Marangoni, F. (1210) 55)

Cholesterol absorption; Cholesterol; Lovastatin; Intestinal cell line; (Rat) (Safonova, I.G. (1210) 181)

Acyltransferase; Dodecylmaltoside; Preparative isoelectric focusing; Phospholipid metabolism; Membrane protein; Phosphatidylethanolamine (Chapman, K.D. (1211) 29)

Plasmalogen; Desaturase (Rangaswamy, S. (1211) 79)

Retina; Phospholipid; Vitamin E; (Zucker rat) (Malnoë, A. (1212) 119)

Thermal oxidation; Dimeric fatty acid; Oligomeric fatty acid; Lipid hemagglutinin (Patrikios, I.S. (1212) 225)

Micellar fatty acid; Icosapentaenoic acid; Triacylglycerol; Phospholipid; Intestine; (CaCo-2 cell) (Ranheim, T. (1212) 295)

Allene oxide synthase; α-Linolenic acid; γ-Linolenic acid; Reaction mechanism; (Flax seeds) (Grechkin, A.N. (1213) 199)

Lipid transport; Eukaryotic cell; Cholesterol; Phospholipid; Sphingolipid; Membrane (Trotter, P.J. (1213) 241)

pH-sensitive liposome; Tocopherol hemisuccinate; Cholesteryl hemisuccinate; Phosphatidylethanolamine; 1-Palmitoyl-2-oleoyl-phosphatidylethanolamine; Liposome (Jizomoto, H. (1213) 343)

Δ^5-Desaturation; Δ^6-Desaturation; Liver; (Rat) (Ulmann, L. (1214) 73)

Placental membrane; Plasma membrane fatty acid-binding protein, ($FABP_{pm}$); (Sheep placenta) (Campbell, F.M. (1214) 187)

Phosphatidylethanol; Phospholipase D; Protein kinase C; Signal transduction (Del Carmen Boyano-Adánez, M. (1214) 263)

Triacylglycerol-rich lipoprotein; VLDL; Apolipoprotein B; Liver; Hepatocyte; Intestine; Insulin; Diabetes (Sparks, J.D. (1215) 9)

Alcohol, ethyl; Phosphatidate phosphohydrolase; (Liver) (Day, C.P. (1215) 33)

3-Hydroxyacyl-CoA dehydrogenase; Hereditary disease (Ulst, L. (1215) 347)

Developmental regulation; Brown fat; (Rat) (Hainline, B.E. (1216) 460)

α-Fetoprotein; Fetoprotein; Serum albumin; Receptor; (Lymphocyte); (Human) (Uriel, J. (1220) 231)

Protein kinase C activity; Fibroblast; Fatty acid oxidation defect; Acyl-CoA ester; (Human) (Nesher, M. (1221) 66)

Stress response; Heat-shock protein; Alcohol; (*Drosophila*) (Munks, R.J.L. (1223) 23)

Interleukin-1; Lymphocyte; Icosanoid; Cytokine (Rotondo, D. (1223) 185)

(*n* − 3) Fatty acid
Arachidonic acid; Docosahexaenoic acid; Docosapentaenoic acid; Icosanoid; Icosapentaenoic acid; Fish oil; Glyceryl ether; Nutrition; Plasmalogen; Platelet-activating factor; Transacylase (Blank, M.L. (1214) 295)

Dietary fat; Very-long-chain fatty acid; Diabetes; Rod outer segment; (Rat) (Suh, M. (1214) 54)

Cholesterol; (*n*−6) Fatty acid; Linolenic acid; Cholesterol condensation (Stillwell, W. (1214) 131)

Spice principle; Superoxide anion; Hydrogen peroxide; Nitrite radical; Macrophage (Joe, B. (1224) 255)

(*n* − 6) Fatty acid
Lipid peroxidation; Oleic acid; 2-Hydroxyalkanal; Glyoxal (Loidl-Stahlhofen, A. (1211) 156)

Lipid peroxidation; Linoleic acid; Oxygen(18) labeling; Dihydroxy fatty acid; α-Hydroxyaldehyde; Fatty acid, (*n* − 1)-hydroxy-*n*-oxo (Loidl-Stahlhofen, A. (1213) 140)

Cholesterol; (*n*−3) Fatty acid; Linolenic acid; Cholesterol condensation (Stillwell, W. (1214) 131)

Fatty acid binding protein
Cholesterol; Sterol carrier protein-2; Plasma membrane; Fluorescence; Hypolipidemic drug (Woodford, J.K. (1189) 52)

Oleic acid; Neutrophil activation (Higazi, A.A.-R. (1201) 442)

Mammary epithelial cell; Immunoaffinity purification; Differentiation; Phosphorylation; Mass spectrometry (Nielsen, S.U. (1211) 189)

Gene expression; Recombinant protein; (Liver); (*E. coli*) (Maatman, R.G.H.J. (1214) 1)

Phosphorylation; Insulin receptor; Soleus muscle; (Rat) (Prinsen, C.F.M. (1215) 103)

Fatty acid composition
Lipoprotein; Apo A-I; Apo A-II; Apo A-IV; LCAT; Cholesterol esterification; Sphingomyelin; Phosphatidylcholine (Duverger, N. (1211) 23)

Antioxidant enzyme; Autoimmunity; Gene expression; Lipid peroxidation; Anti-cardiolipin antibody (Venkatraman, J.T. (1213) 167)

Erythrocyte membrane; Phospholipid turnover; Phospholipid transfer protein (Van den Boom, M.A.P. (1215) 314)

Fatty acid desaturation
Photosynthetic membrane; Chloroplast ultrastructure; Membrane structure; Polyunsaturated lipid; Mutation; (*Arabidopsis*) (Tsvetkova, N.M. (1192) 263)

Microsome; Cyclopropene fatty acid; Baobab seed oil; (Rat liver) (Cao, J. (1210) 27)

Fatty acid elongation
CoASH; Fasting; Microsome; Enzyme kinetics; (Rat); (Liver) (Reichelt, W.H. (1214) 109)

Fatty acid metabolism
Fatty acid transport; Fatty acid oxidation; Transcriptional regulation; Gene regulation; (*E. coli*) (Black, P.N. (1210) 123)

Leukotriene; Lipoxin; Lipoxygenase products; Arachidonic acid; Icosapentaenoic acid; Chemotaxis; Leukocyte; (Rainbow trout); (*O. mykiss*) (Ashton, I. (1214) 253)

Peroxisome proliferator; Acetyl-CoA carboxylase; Hepatocyte; CoA thioester; (Rat) (Tomaszewski, K.E. (1220) 118)

Fatty acid, (*n* − 1)-hydroxy-*n*-oxo
Lipid peroxidation; (*n* − 6) Fatty acid; Linoleic acid; Oxygen(18) labeling; Dihydroxy fatty acid; α-Hydroxyaldehyde (Loidl-Stahlhofen, A. (1213) 140)

Fatty acid oxidation
Fatty acid transport; Transcriptional regulation; Gene regulation; Fatty acid metabolism; (*E. coli*) (Black, P.N. (1210) 123)

Carnithine palmitoyltransferase; Inhibitor binding site; (Liver mitochondrion); (Rat) (Kashfi, K. (1212) 245)

Acetyl-CoA carboxylase; Carnitine palmitoyltransferase 1; Carnitine acetyltransferase; Malonyl-CoA; Carnitine; Coenzyme A; Beta oxidation; Ischemia (Lopaschuk, G.D. (1213) 263)

Mitochondrial enzyme; Non-cleavable signal; Sequence homology; Reye syndrome; Sudden infant death; (Human) (Abe, H. (1216) 304)

Hypoketotic hypoglycemia; Acylcarnitine; Cardiomyopathy; Hyperammonemia (Pande, S.V. (1226) 269)

Phytanic acid; Peroxisome; Peroxisomal disorder; Zellweger syndrome; Enzyme defect (Wanders, R.J.A. (1227) 177)

Fatty acid oxidation defect
Protein kinase C activity; Fatty acid; Fibroblast; Acyl-CoA ester; (Human) (Nesher, M. (1221) 66)

Fatty acid remodeling
CoA-dependent transacylation; Clofibrate; Peroxisome proliferator; (Rat liver) (Yamashita, A. (1211) 263)

Fatty acid synthase
Lipoprotein; Mammary gland; Endoplasmic reticulum; Milk lipid globule (Keon, B.H. (1215) 327)

Fatty acid synthesis
Branched-chain amino acid; (Skin); (Rat) (Oku, H. (1214) 279)

Surfactant lipid; Fatty acid synthetase; Human fetal lung; cyclic AMP; Glucocorticoid (Gonzales, L.W. (1215) 49)

Fatty acid synthetase
Fatty acid; Acylated protein; Purple membrane; Red membrane; (Archaebacterium) (Pugh, E.L. (1196) 38)

Surfactant lipid; Human fetal lung; cyclic AMP; Glucocorticoid; Fatty acid synthesis (Gonzales, L.W. (1215) 49)

Fatty acid, *trans*
Diphenylhexatriene; Elaidic acid; Fluorescence polarization; Liver; Mitochondrion; Phospholipid; (Rat) (Wolff, R.L. (1211) 198)

Fatty acid transport
Fatty acid oxidation; Transcriptional regulation; Gene regulation; Fatty acid metabolism; (*E. coli*) (Black, P.N. (1210) 123)

Long-chain fatty acid; Albumin; Binding constant; Membrane (Rose, H. (1215) 321)

Fatty acid uptake
Keratinocyte; Linoleic acid; (Human) (Schürer, N.Y. (1211) 51)

Fatty acyl-CoA oxidase
Perfluorooctanoic acid; Peroxisome proliferation; Catalase; Liver; (Rat); (Morris hepatoma 7800C1 cell) (Sohlenius, A.-K. (1213) 63)

Fatty liver
Ethanol; Phosphatidate phosphohydrolase (Simpson, K.J. (1201) 411)

Fc receptor
Adenosine; Phagocytosis; cyclic AMP; F-actin; Neutrophil; Calcium (Zalavary, S. (1222) 249)

FDMR
Fluorescence detected magnetic resonance; Photosystem; Chlorophyll; Triplet; P680 (Carbonera, D. (1185) 167)

Femtosecond spectroscopy
Allophycocyanin; Excitation energy transfer; Anisotropy; Photosynthesis (Sharkov, A.V. (1188) 349)

Ferredoxin
Hydrogenosome; cDNA; Protein sequence; Anaerobic free living protozoon; Protozoon; (*P. lanterna*) (Brul, S. (1183) 544)

Nitrite reductase; Oxidation-reduction titration; Cyclic voltammetry; Laser flash photolysis; Protein-protein complex; (Spinach) (Hirasawa, M. (1185) 336)

Photosystem I; Crystal; X-ray structure; Photosynthesis; Plastocyanin (Fromme, P. (1187) 99)

Pulse radiolysis; Protein characterization; Ruthenium modification (Blue-green algae) (Lloyd, E. (1202) 113)

Amino acid sequence; NMR, ^{1}H-; MCD; (*D. africanus*) (Davy, S.L. (1209) 33)

Mitochondrion; Complex II; Succinate dehydrogenase; Fumarate reductase; EPR, pulsed; ESEEM; (Plant); (*S. platensis*) (Shergill, J.K. (1185) 43)

Ferredoxin-dependent enzyme
Nitrite reductase; Tryptophan; Electron transfer (Hirasawa, M. (1187) 80)

Ferredoxin-NADP$^+$ reductase
cDNA; Rice root; (*O. sativa* L.) (Aoki, H. (1183) 553)

Viologen; Cyanobacterium; Electron transfer; Chemical modification; Computer graphics (Gómez-Moreno, C. (1187) 236)

Ferredoxin-plastoquinone reductase
Cyclic electron transport; Electron transport; Cyclic photophosphorylation; Cyanobacterial photosynthesis; Photosystem I; (*P. laminosum*) (Manasse, R.S. (1183) 361)

Ferredoxin-thioredoxin reductase
Catalytic subunit; cDNA; (*Z. mays*) (Marc-Martin, S. (1183) 207)

Subunit A; Subunit B; cDNA sequence; (*S. oleracea*) (Falkenstein, E. (1185) 252)

Ferric ion
C-Phycocyanin; Phycocyanin; Biliprotein; Phycoerythrin 545; Circular dichroism (MacColl, R. (1188) 398)

Ferricyanide reductase
Histidine; DEPC; Rose bengal; Chemical modification; Ehrlich ascites tumor cell (Medina, M.A. (1190) 20)

Ferricytochrome b_5
NMR, ^{1}H-; Heme; Heme orientation (Lee, K.-B. (1202) 189)

NMR, ^{1}H-; Hydrogen bonding; Isotope effect; Hyperfine shift (Lee, K.-B. (1208) 22)

Ferritin
Atomic force microscopy; Apoferritin; Immunoglobulin; Hemoglobin; 1,2-Dihexadecanoyl-rac-glycero-3-phosphatidylcholine (DPPC) (Yang, J. (1199) 105)

Glucose-6-phosphatase; Lipid peroxidation; Paraquat; Chemiluminescence (Puntarulo, S. (1200) 41)

Binding protein; Mucosal; Development; Transferrin; (Guinea pig) (Kozma, M.M. (1201) 229)

Linkage; Dimerization; Disulfide bridge (Yang, D. (1206) 173)

Ferrochelatase
Erythroblast; Haem; Iron; 5-Aminolaevulinic acid synthase; Regulation (Houston, T. (1201) 85)

Heme biosynthesis; Mutagenesis; Histidine residue; Iron binding; (Human) (Kohno, H. (1209) 95)

Erythropoietic protoporphyria; Splicing mutation; Exon skipping (Wang, X. (1227) 25)

Ferrochelatase gene
Erythropoietic protoporphyria; Mutation (Wang, X. (1225) 187)

Ferrodoxin-dependent glutamate synthase
Glutamate synthase; Gene cloning; Gene sequencing; (Spinach) (Nalbantoglu, B. (1183) 557)

Ferrylmyoglobin
Magnesium; Myoglobin; Cardiac ischemia; Ascorbic acid; Cytochrome oxidase aa_3; (Rat heart) (Wu, F. (1225) 158)

Fertility
MDC protein; Disintegrin; Metalloproteinase; Testicular protein (Barker, H.L. (1218) 429)

Fertilization
Cysteine-rich metalloproteinase; Disintegrin; Metalloproteinase; Testis; (MDC) (Perry, A.C.F. (1207) 134)

Fertilization-promoting peptide
Pyroglutamylglutamylprolineamide; TRH-related peptide; Human prostate; Benign prostatic hyperplasia (Cockle, S.M. (1227) 60)

Fe-S cluster
NADH:Q oxidoreductase; Ubisemiquinone; Energy coupling; Pre-steady-state kinetics; (Bovine heart mitochondria) (De Jong, A.M.Ph. (1186) 163)

[6Fe-6S] cluster
Electron paramagnetic resonance; Prismane protein; Complex Fe-S cluster; Redox titration; Molecular cloning; *(Desulfovibrio)* (Van den Berg, W.A.M. (1206) 240)

Fetal
Nucleotide sequence; β-Globin; (Sheep) (Saban, J. (1218) 87)

Fetal kidney
Ribosomal protein L27; cDNA; Developmental regulation; (Human) (Gallagher, R.A. (1217) 329)

Fetal membrane
Pulmonary surfactant protein; SP-A; SP-D; Amniotic fluid; Preterm labour; Chorioamniotic; (Human) (Miyamura, K. (1210) 303)

Fetal type II cell
CTP:phosphocholine cytidylyltransferase (EC 2.7.7.15); cyclic AMP-dependent protein kinase; Pulmonary surfactant; Lung; (Rat) (Zimmermann, L.J. (1211) 44)

Protein kinase C; Enzyme activation (Scott, J.E. (1221) 297)

Fetoprotein
α-Fetoprotein; Serum albumin; Receptor; Fatty acid; (Lymphocyte); (Human) (Uriel, J. (1220) 231)

α-Fetoprotein
Antiestrogen; Estradiol; Protein purification; Antiuterotrophic activity; Albumin (Allen, S.H.G. (1202) 135)

Recombinant protein; Glycopeptidase F; Glycosylation; Estrogen; (Rat) (Koyama, Y. (1208) 332)

Gene regulation; Glucocorticoid regulation; *cis*-acting sequence (Rabek, J.P. (1218) 136)

Fetoprotein; Serum albumin; Receptor; Fatty acid; (Lymphocyte); (Human) (Uriel, J. (1220) 231)

FGF
Fibroblast growth factor; Sucrose octasulfate; Sucralfate; Protein stability; (aFGF); (FGF-1) (Volkin, D.B. (1203) 18)

Fibrillarin
cDNA sequence; GAR domain; RNA-binding motif; Interspecies amino acid sequence homology (Turley, S.J. (1216) 119)

Fibrinogen
Thrombocyte; Platelet; Icosanoid; U-46619; Platelet-activating factor; Leukotriene; Lipoxin; Thrombin; Hemostasis; (Rainbow trout); (*O. mykiss*) (Lloyd-Evans, P. (1215) 291)

Fibrinolysis
5,6-*trans*-Prostaglandin E_2; Plasminogen activation; Urokinase; Streptokinase (Urano, T. (1205) 258)

Plasminogen activator inhibitor 1; Vitronectin; Protein–protein interaction (Sigurdardottir, O. (1208) 104)

Fibroblast
Cholesterol; Sphingomyelin; Sphingosine; Lipid transfer; Acyl-CoA cholesterol acyltransferase (Härmälä, A.-S. (1210) 97)

Peroxisomal β-oxidation; Peroxisome; Mitochondrion; Oxidative phosphorylation; (Human skin) (Jakobs, B.S. (1211) 37)

U18666A; Cholesterol esterification; Cholesterol translocation; Steroid hormone; Lipid transfer; Leydig cell; (Mouse); (Human) (Härmälä, A.-S. (1211) 317)

Liposome; Lipoprotein lipase; Familial hypercholesterolemia; β VLDL; Smooth muscle cell (Stein, O. (1212) 305)

Collagen; Granulation tissue; Fibronectin; cDNA cloning; Gene expression; (Rat) (Glumoff, V. (1217) 41)

Retinoic acid; Type I collagen; (Human lung) (Krupsky, M. (1219) 335)

Protein kinase C activity; Fatty acid; Fatty acid oxidation defect; Acyl-CoA ester; (Human) (Nesher, M. (1221) 66)

Melittin; Calcium ionophore A23187; Phorbol myristate acetate; Epidermal growth factor; Protein tyrosine kinase; Protein tyrosine phosphatase; (Human) (Errasfa, M. (1222) 471)

Sphingosine; Fibronectin; Monensin; Integrin, $\alpha_5\beta_1$-; Adhesion (Scita, G. (1223) 29)

Fibroblast cell
Thymidylate synthase; DNA-binding factor; Regulatory sequence; Promoter; HeLa cell; (Human) (Horie, N. (1216) 409)

Fibroblast culture
Niemann-Pick disease; Sphingoid bases; Sphingosine; Human tissue; Cholesterol (Rodriguez-Lafrasse, C. (1226) 138)

Fibroblast growth factor
FGF; Sucrose octasulfate; Sucralfate; Protein stability; (aFGF); (FGF-1) (Volkin, D.B. (1203) 18)

Arachidonic acid; Signal transduction; Phosphoinositide turnover; (Swiss 3T3 cell) (Virdee, K. (1220) 171)

Keratinocyte growth factor; Limb regeneration; Blastema; (*N. viridescens*) (Poulin, M.L. (1220) 209)

Diacylglycerol; Protein kinase C; Signal transduction (Virdee, K. (1224) 489)

Fibronectin
Xyloside; Endothelial cell; Thrombospondin; Proteoglycan (Canfield, A.E. (1200) 249)

Collagen; Granulation tissue; Fibroblast; cDNA cloning; Gene expression; (Rat) (Glumoff, V. (1217) 41)

Actin; Gene expression; cyclic AMP; (Adipocyte); (Mouse) (Antras-Ferry, J. (1222) 390)

Sphingosine; Fibroblast; Monensin; Integrin, $\alpha_5\beta_1$-; Adhesion (Scita, G. (1223) 29)

Asbestos; Metastasis; Cell culture; Mesothelioma; Cell substrate adhesion; Interference reflection microscopy; Laminin (Lee, M.M. (1226) 151)

Fibronectin degradation
Neutrophil; Elastase; α_1-Antitrypsin (Llewellyn-Jones, C.G. (1227) 155)

Fibrosis
Hepatotoxicity; NAD/NADH ratio; Mitochondrial damage; (Liver) (Hernández-Muñoz, R. (1200) 93)

Filament severing
Actin; Peptide fragment; Subdomain 4; Polymerization inhibition; Actin–actin contact (Hori, K. (1186) 35)

Film stability
Phospholipid; Lipid; Cholesterol; SP-A; Calcium; Adsorption; Surface film; Surface pressure; Surface tension (Yu, S.-H. (1211) 350)

Filopodia
cDNA; Cytoskeleton; Ezrin; Merlin; Phosphorylation (Lankes, W.T. (1216) 479)

Filtrable enzyme
3′-Nucleotidase; Plasma membrane; Nucleoside supply; (*L. donovani*) (Gbenle, G.O. (1203) 162)

Firefly luciferase
Bioluminescence; Protein engineering; C-terminus; Luciferase; (Firefly) (Sala-Newby, G.B. (1206) 155)

Fish oil
Arachidonic acid; Docosahexaenoic acid; Docosapentaenoic acid; Icosanoid; Icosapentaenoic acid; Glyceryl ether; Nutrition; $(n-3)$ Fatty acid; Plasmalogen; Platelet-activating factor; Transacylase (Blank, M.L. (1214) 295)

Fish oil; (Maxepa)
Corn oil; VLDL; LDL; Apolipoprotein B metabolism; LDL receptor (Huff, M.W. (1210) 113)

FITC-dextran
Chloride channel; cAMP; T84 cell; 9HTEo$^-$ cell; Endosome; CFTR (Santos, G.F. (1195) 96)

FK506 binding protein
NMR; Immunophilin; Immunosuppressant; Cyclophilin; Histidine; pH titration; Acid constant (Yu, L. (1209) 24)

Flagella
Fluorescence; Flagellin; Energy transfer; Domain movement; Fluorescein (Seville, M. (1205) 294)

Flagellar hook
Complementation; *flgD* gene; Nucleotide sequence; Amino acid sequence; (*S. typhimurium*) (Kutsukake, K. (1218) 443)

Flagellar motor
Growth; pH effect; NMR, ^{31}P-; (*R. sphaeroides*) (Packer, H.L. (1188) 101)

Flagellin
Fluorescence; Flagella; Energy transfer; Domain movement; Fluorescein (Seville, M. (1205) 294)

***5′* Flanking region**
Interleukin-2 gene; Long interspersed repetitive sequence; (Human) (Jankevics, E. (1217) 235)

5′ Flanking sequence
Lipoprotein lipase gene; *cis*-acting regulatory element; Synergistic effect; Promoter activity; (Avian) (Lu, S.-C. (1216) 375)

Flash absorption spectroscopy
Cytochrome c_6; Photosystem I; Plastocyanin; (*Synechocystis*) (Hervás, M. (1184) 235)

Flash pattern
Photosynthesis; Oxygen evolution; Peroxide; Mass spectrometry; Cyanobacterium (Bader, K.P. (1188) 213)

Flash photolysis
Cytochrome *bo*; Mutant; Carbon monoxide; Transient kinetics; (*E. coli*) (Brown, S. (1183) 521)

Cytochrome *c* oxidase; Ligand; Electron transfer; Proton transfer; Conformation change (Hallén, S. (1184) 207)

Flavin nucleotide
Decay-associated spectrum; Photosynthesis; Plant phenolic; Pyridine nucleotide (Cerovic, Z.G. (1188) 58)

Flavin reductase
Nucleotide sequence; NADH:FMN oxidoreductase; *lux*G; (*V. harveyi*) (Izumoto, Y. (1185) 243)

Flavocytochrome
NADPH oxidase; Granulomatous disease; Protein structure (Thrasher, A.J. (1227) 1)

Flavocytochrome b_2
Heme; Axial Ligand (Miles, C.S. (1202) 82)

Flavocytochrome *c*-552
Heme axial ligand; Magnetic circular dichroism; (*C. vinosum*) (Garcia Castillo, M.C. (1184) 273)

Flavoenzyme
Retinoic acid synthase; Retinal oxidase; Oxidoreductase; Retinoid; Hepatocyte; (Rabbit) (Tsujita, M. (1204) 108)

FAD-containing monooxygenase; Oxygenase; Kinetics; Neurotoxin (Wu, R.-F. (1208) 204)

Flavonoid
cDNA-expressed cytochrome; Hepatic cytochrome; Inhibition; Activation; (Human) (Tsyrlov, I.B. (1205) 325)

Flavoprotein
Succinate dehydrogenase; cDNA; Nucleotide sequence; (Human heart) (Morris, A.A.M. (1185) 125)

Lysine: N^6-hydroxylation; Oxygen activation; Siderophore (Thariath, A.M. (1203) 27)

D-Amino acid; D-Aspartate oxidase; (*O. vulgaris*) (Tedeschi, G. (1207) 217)

***flgD* gene**
Flagellar hook; Complementation; Nucleotide sequence; Amino acid sequence; (*S. typhimurium*) (Kutsukake, K. (1218) 443)

Flip-flop
Erythrocyte membrane; Amphiphile; Anion exchange; Band 3; Flippase (Ortwein, R. (1191) 317)

Phospholipid; NBD-phospholipid; Aminophospholipid translocase; Phosphatidylserine; Membrane asymmetry (Smeets, E.F. (1195) 281)

Flippase
Erythrocyte membrane; Flip-flop; Amphiphile; Anion exchange; Band 3 (Ortwein, R. (1191) 317)

Flow
Shear stress; Membrane permeability; Merocyanine 540; Endothelial cell (Berthiaume, F. (1191) 209)

Flow cytometry
MDR1; P-glycoprotein; Calcein; Fluorescent indicator; Fluorometry; Functional assay (Holló, Zs. (1191) 384)

Transmembrane potential; DiS-C_3(3); 3,3′-Dipropylthiacarbocyanine; Spectral analysis; Confocal microscopy (Plášek, J. (1196) 181)

Adenosine triphosphate; Adriamycin; Chemosensitizing effect; (Ovarian carcinoma) (Maymon, R. (1201) 173)

Lectin, K99; Biotinylation; Hemagglutination (Berger, S. (1206) 197)

Flow dialysis
α-Actinin; Calcium binding; Secondary structure; (Chicken gizzard) (Wenegieme, E.F. (1205) 308)

Fluid–fluid immiscibility
Bacterium; Phospholipid; Phosphatidylethanolamine; Crosslinking; Domain (Roth, M.R. (1190) 91)

Fluidity
Phospholipid; Asymmetry; Spermatozoon; Aminophospholipid translocase; (Trout) (Müller, K. (1192) 21)

Microvillus plasma membrane; Human placenta; Development; ATPase, Na^+/K^+-; Freeze-fracture (Mazzanti, L. (1192) 101)

Fluorescein
Fluorescence; Flagella; Flagellin; Energy transfer; Domain movement (Seville, M. (1205) 294)

Fluorescein 5′-isothiocyanate
Uridine phosphorylase; Uridine binding site; Selective modification; (*E. coli*) (Komissarov, A.A. (1205) 54)

Fluorescence
Electron transfer; Photosystem II; Reaction center; Sugar beet; Time-resolved (Montoya, G. (1185) 85)

ATPase, Na^+/K^+-; ATPase, $(Mg^{2+}+Ca^{2+})$-; ATPase, Ca^{2+}-; Drug; Microsomal membrane (Adhikary, G. (1188) 220)

Cholesterol; Sterol carrier protein-2; Fatty acid binding protein; Plasma membrane; Hypolipidemic drug (Woodford, J.K. (1189) 52)

Sarcoplasmic reticulum vesicle; Dibucaine; Local anesthetic; Anesthetic (Louro, S.R.W. (1189) 243)

Influenza virus; Fusion; Erythrocyte; Rhodamine (Arbuzova, A. (1190) 360)

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Fluorescence quenching
Absorption spectrum; Fluorescence emission spectrum; Fluorescence quantum yield; LHC II aggregation; Chlorophyll *a* / *b* complex II (Jennings, R.C. (1184) 279)

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Folate receptor
Folate/hydroxyl antiport; Proton pump; Proton gradient; Potocytosis; (Choriocarcinoma cell) (Prasad, P.D. (1222) 309)

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G_{M2} gangliosidosis; G_{M2} ganglioside; Tay-Sachs disease; Hexosaminidase (Novak, A. (1199) 215)

GAD
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α-Galactosidase
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Galactosialidosis; Neuraminidase; Cathepsin A; Protective protein; Mutation (Okamura-Oho, Y. (1225) 244)

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G_{M2} gangliosidosis
G_{M2} activator; G_{M2} ganglioside; Hexosamindase (Novak, A. (1199) 209)

G_{M2} ganglioside; G_{M2} activator; Tay-Sachs disease; Hexosaminidase (Novak, A. (1199) 215)

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Gastrin-binding protein
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Glomerular uptake
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cDNA; Cerebellum; Cloning; Sequence; (Human) (Shashidharan, P. (1216) 161)

L-Glutamate transporter
cDNA; Brain; Pancreatic islet cell; Sequence; (Human) (Manfras, B.J. (1195) 185)

Glutamine
Enterocyte; Intestine; (Rat) (Watford, M. (1200) 73)

Regulatory volume decrease; Amino acid; Biological transport; Cell volume; (Fibroblast); (Human) (Dall'Asta, V. (1220) 139)

Glutamyl binding site
Trypanothione reductase; Substrate analogue; Kinetic analysis; Enzyme modification; (*C. fasciculata*); (*T. congolense*) (El-Waer, A.F. (1203) 93)

γ-Glutamyl transpeptidase
Glutathione; Cystine transport; (Endothelial cell); (Human) (Cotgreave, I.A. (1222) 375)

Glutaredoxin
Thioltransferase; cDNA cloning; Nucleotide sequence; (Human) (Fernando, M.R. (1218) 229)

Glutathione
Mitochondrion; Phospholipid hydroperoxide; Glutathione peroxidase; Selenium; (Rat testis) (Godeas, C. (1191) 147)

Hsp70 gene; Cadmium; Oxygen radical; (Human) (Abe, T. (1201) 29)

Glutathione *S*-transferase; Enzyme inhibition; α,β-Unsaturated carbonyl compound; (Rat) (Chien, C.-i. (1204) 175)

Glyoxalase; Malaria; Tropolone; (*P. falciparum*) (Barnard, J.F. (1208) 127)

Phosholipid hydroperoxide glutathione peroxidase; Selenium; Glutathione peroxidase; (Testis); (Rat) (Roveri, A. (1208) 211)

Cystine transport; γ-Glutamyl transpeptidase; (Endothelial cell); (Human) (Cotgreave, I.A. (1222) 375)

Sorbitol synthesis; Aldose reductase; Diabetes; (Rat); (IMCD cell) (Grunewald, R.W. (1225) 39)

Glutathione conjugate transport
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Glutathione peroxidase
Mitochondrion; Phospholipid hydroperoxide; Selenium; Glutathione; (Rat testis) (Godeas, C. (1191) 147)

Phosholipid hydroperoxide glutathione peroxidase; Selenium; Glutathione; (Testis); (Rat) (Roveri, A. (1208) 211)

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Glutathione-protein mixed disulfide
GSH; GSSG; Rat blood; Oxidative stress; Glucose (Di Simplicio, P. (1199) 245)

Glutathione-*S*-transferase
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Glutathione *S*-transferase
Rapid equilibrium; Bi Bi mechanism; Random sequential Bi Bi mechanism (Thumser, A.E.A. (1203) 115)

Glutathione *S*-transferase, Mu class; 4-Hydroxyalkenal (Hussey, A.J. (1203) 131)

Enzyme inhibition; Glutathione; α,β-Unsaturated carbonyl compound; (Rat) (Chien, C.-i. (1204) 175)

Subunit; Amino acid sequence; 4-Hydroxy-2-nonenal; (Human) (Singhal, S.S. (1204) 279)

Enzyme localization; Microsome; Functional membrane topology; Structural membrane topology; (Rat liver) (Andersson, C. (1204) 298)

Protein structure; X-ray crystallography; Enzyme mechanism (Wilce, M.C.J. (1205) 1)

Brassica; Theta class GST; Affinity chromatography; (Broccoli) (Lopez, M.F. (1205) 29)

UDPglucuronosyltransferase; Small intestine; (Rat) (Dannenberg, A.J. (1210) 8)

Nucleotide sequence; Clone; Amino acid sequence; (Chicken liver) (Liu, L.-F. (1216) 332)

IgE antibody; Allergy; (*D. pteronyssinus*) (O'Neill, G.M. (1219) 521)

Glutathione *S*-transferase gene
NAD(P)H:quinone oxidoreductase gene; Antioxidant responsive element; Protein characterization; Competition assay; Gel mobility shift assay; (Human); (HeLa cell) (Wang, B. (1219) 645)

Glutathione *S*-transferase, Mu class
Glutathione *S*-transferase; 4-Hydroxyalkenal (Hussey, A.J. (1203) 131)

Glutathione transferase
Tumor cell line; Enzyme-linked immunosorbent assay; Blood plasma (Hao, X.-Y. (1225) 223)

Glutathione transferase P gene
Jun and Fos related gene product; GPE I; DNA binding activity; Transcriptional regulation; (Rat) (Oridate, N. (1219) 499)

Glycan
Transferrin; Endoglycosidase; Amino acid sequence; Electrospray mass spectrometry; (Porcine) (Sharma, N.D. (1206) 286)

Glycanase
Sialyltransferase; Golgi complex; Endo F; Glycoprotein; Deglycosylation (Fast, D.G. (1202) 325)

Glycation
Maillard reaction; Aging; Immunoelectron microscopy; Basement membrane; Eye (Marion, M.S. (1191) 33)

γ-crystallin; Diabetes; Fructose; Lens (Pennington, J. (1226) 163)

Crystallins; Galactose; Glucose; Lens; Pyridoxal phosphate (Ganea, E. (1226) 286)

Glycation product
Diabetes; Mass spectrometry; Matrix-assisted laser desorption/ionization mass spectrometry (MALDI) (Lapolla, A. (1225) 33)

Glyceraldehyde-3-phosphate dehydrogenase
Sodium nitroprusside; Nitric oxide; ADP ribosylation (Vaidyanathan, V.V. (1203) 36)

Thymocyte; Aldolase; Hexokinase; Pyruvate kinase; Cell cycle (Netzker, R. (1224) 371)

Glyceraldehyde 3-phosphate dehydrogenase
Phosphoribulokinase; Multienzyme complex; Isoenzyme (Clasper, S. (1209) 101)

Glycerol
Protein, 9 kDa; Betaine; Oxygen evolution; (*Ph. laminosum*) (Stamatakis, C. (1183) 333)

Bioenergetics; Biomembrane; Diffusion; Sucrose; Membrane dynamics; Hydration (Chazotte, B. (1194) 315)

Glycerol dehydrogenase
Reactive lysine; Pyridoxal-5-phosphate; Site-directed mutagenesis; (*B. stearothermophilus*) (Paine, L.J. (1202) 235)

Glycerol monooleate
Fluorescence; Solvatochromism; Electrochromism; Membrane voltage; Hemicyanine dye; Lipid bilayer (Fromherz, P. (1191) 299)

Glycerol permeability
Erythrocyte; Membrane; EPR; Activation energy; (Human spermatozoon) (Du, J. (1194) 1)

Glycerophosphoinositol
Inositol; Inositol phosphate; HL-60; Hemopoietic cell differentiation (Mountford, J.C. (1222) 101)

Glyceryl ether
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Glycine-rich protein
Promoter; Ribonucleoprotein; Tissue-specific expression; (Plant); (*B. napus*) (Bergeron, D. (1216) 123)

Glycine transport
Sodium chloride dependence; Stoichiometry; Sarcosine; GLYT 1; Calmodulin antagonist; (Choriocarcinoma cell) (Liu, W. (1194) 176)

Glycogen
Branching enzyme; Differentiation; Nucleotide sequence; (*Streptomyces*) (Homerova, D. (1200) 334)

Glycogen degradation
Glucagon; Adrenergic agonist; (Hepatocyte); (Rat) (Tosh, D. (1221) 238)

Glycogenolysis
Parathyroid hormone; Perfused liver; Hepatocyte; (Rat) (You-Qing, Z. (1222) 223)

Glycogen phosphorylase
Sarcoplasmic reticulum; Phosphoglucomutase; Glycosidase; Myokinase; Creatine kinase (Cuenda, A. (1194) 35)

Glycogen synthase
AMP-dependent kinase; Glucose 6-phosphate; Insulin (Villar-Palasi, C. (1207) 88)

Glycogen synthesis
Direct pathway; Indirect pathway; Nutrition; (Rat hepatocyte) (Tosh, D. (1224) 205)

Glycolipid
Mycobacterium; Fatty acid; Gas chromatography (Hartmann, S. (1201) 339)

DNA replication; DNA polymerase; Ganglioside; Sialic acid (Simbulan, C.M.G. (1205) 68)

Halophile; Structure; Halobacterium; Isopranoid ether lipid; (*Hb. trapanicum*); (*Archaea*) (Trincone, A. (1210) 35)

Phenolic glycolipid; Structure; (*M. tuberculosis*) (Watanabe, M. (1210) 174)

Sulfolipid; Sulfatide; Seminolipid; Myelin; Spermatozoon (Vos, J.P. (1211) 125)

Glycolipid bis-sulfate
Diphytanylglycerol diether analogue; C_{20}-C_{25}-glycerol diether analogue; Phosphatidylglyceromethylphosphate; Spectroscopy; FAB-MS (Matsubara, T. (1214) 97)

Glycolysis
Oxidative phosphorylation; Phosphate-ATP flux; ATP; NMR, ^{31}P-; Saturation transfer; (Sheep myocardium) (Portman, M.A. (1185) 221)

Hexokinase; Citric acid accumulation; 2-Deoxyglucose resistance; Regulation; (*A. niger*) (Steinböck, F. (1200) 215)

Bradykinin; Fructose 2,6-bisphosphate; 6-Phosphofructo-2-kinase; (Fibroblast); (Human) (Meacci, E. (1221) 233)

Diabetes; Heart; Ischemia; Metabolism; Glucose oxidation; (Rat) (Gamble, J. (1225) 191)

Glycolytic enzyme
Neurotoxicity; Endogenous aldehyde (Novotny, M.V. (1226) 145)

Glycopeptidase F
α-Fetoprotein; Recombinant protein; Glycosylation; Estrogen; (Rat) (Koyama, Y. (1208) 332)

Glycopeptide
Conformation; T-cell activity; Epitope; Agonist; Antagonist (Otvos Jr., L. (1224) 68)

Glycophorin
NMR, ^{2}H-; Phase equilibrium; Lipid–protein interaction (Shan, X. (1193) 127)

Protein 4.1; Calmodulin; Band 3; Erythrocyte membrane (Lombardo, C.R. (1196) 139)

Glycophorin A
Macrophage recognition; Sialosaccharide receptor; Macrophage lectin; Thiol oxidation; (Erythrocyte); (Mouse) (Beppu, M. (1223) 47)

Glycoprotein
P-glycoprotein; Gramicidin D; Ionophore; Chemosensitizer; Cation efflux; Valinomycin (Loe, D.W. (1190) 72)

Amphiphile; Detergent; Erythrocyte; Vesiculation; Phospholipid; Cholesterol; Polypeptide (Hägerstrand, H. (1190) 409)

Zona pellucida; Bovine egg; In vitro fertilization (Noguchi, S. (1201) 7)

Cartilage; Copper; Chondrocyte; Metabolism (Fife, R.S. (1201) 19)

Small intestine; Fucosylation; Suckling; Prolonged-nursing; Weaning; Dietary fiber (Tardy, F. (1201) 41)

Placental protein; Molecular complex; Proteoglycan; Proteinase inhibition (Oxvig, C. (1201) 415)

Sialyltransferase; Golgi complex; Glycanase; Endo F; Deglycosylation (Fast, D.G. (1202) 325)

Carbohydrate structure; Kininogen; Thiostatin; Cysteine proteinase inhibitor (Rusiniak, M.E. (1208) 316)

β_1-Glycoprotein
Pregnancy-specific β_1-glycoprotein; Gene sequence; Carboxy-terminal domain (Joe, T.W. (1219) 195)

P-Glycoprotein
Benzo[a]pyrene; Intestine (human); Carcinogen; Transport (Penny, J.I. (1226) 232)

Glycosaminoglycan
Sulfated polysaccharide; L-Galactan; Dermatan sulfate; (Ascidia) (Pavão, M.S.G. (1199) 229)

Amyloid P component; Heparin; Binding; Serum (Li, X.A. (1201) 143)

Heparan sulfate; Proteoglycan; Urine; Mucopolysaccharidosis (Van de Lest, C.H.A. (1201) 305)

Urinary bikunin; Trypsin inhibitor; Charge isomer; Chondroitin sulfate (Yuki, Y. (1203) 298)

LDL; GAG–protein complex; (Human) (Cherchi, G.M. (1212) 345)

Radiation; Heparan sulfate; Chondroitin sulfate; Dermatan sulfate; Endothelium; (Bovine aorta) (Pye, D.A. (1220) 266)

Glycosaminoglycan binding site
Leuserpin-2; Thrombin inhibition (Westrup, D. (1217) 93)

Glycosidase
Sarcoplasmic reticulum; Glycogen phosphorylase; Phosphoglucomutase; Myokinase; Creatine kinase (Cuenda, A. (1194) 35)

α-D-Glycoside
Concanavalin A; Monosaccharide binding; NMR, ^{1}H-; Correlation time (Troganis, A. (1206) 215)

Glycosphingolipid
Interdigitation; Lipid bilayer; EPR; Spin label (Boggs, J.M. (1189) 233)

Ganglioside; Sulfatide; Phospholipase A_2; Monolayer; Unilamellar bilayer vesicle (Maggio, B. (1190) 137)

GM_1; Globoside; NMR, ^{2}H- (Barber, K.R. (1190) 376)

Ceramide monosaccharide; Ceramide disaccharide; Ceramide trisaccharide; Fucosylated glycolipid; Diplopoda glycolipid; (*P. l. armigera*) (Sugita, M. (1215) 163)

Glycosylceramide; Glioma; Differentiation; dibutyryl cyclic AMP; cyclic AMP (Hoffman, L.M. (1222) 37)

Parasite; Ganglioside; Structure; (*Echinococcus multilocularis*); (Cestode) (Persat, F. (1225) 297)

Glycosylation
Glucose transporter; Blood-brain barrier; Choroid plexus; Subcellular localization; (GLUT1) (Kumagai, A.K. (1193) 24)

Synthetic peptide; Cell free system; Protozoa; Parasite (Dieckmann-Schuppert, A. (1199) 37)

α-Fetoprotein; Recombinant protein; Glycopeptidase F; Estrogen; (Rat) (Koyama, Y. (1208) 332)

Lipoprotein lipase; Affinity for heparin; Heparin; Adipocyte, 3T3-LI (Masuno, H. (1212) 125)

Acetylcholinesterase; Butyrylcholinesterase; Murine muscular dystrophy; Molecular form (Cabezas-Herrera, J. (1225) 283)

***N*-Glycosylation**
Histidase; Histidinemia; cDNA; Polyadenylation signal; (Human) (Suchi, M. (1216) 293)

Glucose transporter; Transforming growth factor-β; Lectin binding; Mouse 3T3 fibroblast (Masumi, A. (1221) 330)

***N*-Glycosylation site**
Efficiency; Selection; Glucotriose unit; Exoglucanase; (*S. cerevisiae*) (Muñoz, M.D. (1201) 361)

Glycosylceramide
Glycosphingolipid; Glioma; Differentiation; dibutyryl cyclic AMP; cyclic AMP (Hoffman, L.M. (1222) 37)

Glycosylphosphatidyl inositol
GPI-anchored enzyme; Membrane enzyme; Aminopeptidase P; Brush-border membrane; (Rat intestine) (Koelsch, R. (1190) 170)

Glycosylphosphatidylinositol anchor
5′-Nucleotidase; COS cell (Furukawa, Y. (1190) 273)

Glyoxal
Lipid peroxidation; ($n-6$) Fatty acid; Oleic acid; 2-Hydroxyalkanal (Loidl-Stahlhofen, A. (1211) 156)

Lipid peroxidation; Linolenic acid; α-Hydroxyaldehyde; Hydroxy-oxo-octadecadienoic acid; Dihydroxyoctadecadienoic acid; ω-Oxo(ω-1)hydroxy fatty acid (Mlakar, A. (1214) 209)

Glyoxalase
Glutathione; Malaria; Tropolone; (*P. falciparum*) (Barnard, J.F. (1208) 127)

Glyoxalase I
Thiol reagent; Sulfhydryl group; (*S. cerevisiae*) (Caccuri, A.M. (1202) 157)

GLYT 1
Glycine transport; Sodium chloride dependence; Stoichiometry; Sarcosine; Calmodulin antagonist; (Choriocarcinoma cell) (Liu, W. (1194) 176)

GM_1
Glycosphingolipid; Globoside; NMR, ^{2}H- (Barber, K.R. (1190) 376)

GM-CSF
5-Lipoxygenase; Phospholipase A_2; Arachidonic acid; Calcium (Krump, E. (1213) 135)

GM-CSF receptor
DNA sequence; Alternative splicing; Isoform (Hu, X. (1223) 306)

GM2 gangliosidosis
Regulation; Promoter; mRNA quantitation; (Mouse) (Triggs-Raine, B.L. (1227) 79)

cyclic GMP
Nitric oxide; Spin trapping; Nitric oxide synthase (Pou, S. (1201) 118)

Neuroparsin; 5-Hydroxytryptamine; Calcium ion, cytosolic free; Protein kinase C; cyclic AMP; (Rectal cell); (African locust) (Fournier, B. (1220) 181)

Goat serum albumin
Maleylation; Bilirubin binding; Fluorescence quenching (Islam, M. (1205) 171)

Golgi apparatus
Plant cell; Cell-free system; Lipid transfer; Endoplasmic reticulum; Phospholipid (Sturbois, B. (1189) 31)

Acyl transfer activity; Phospholipase A_2; Phosphatidylcholine; (Rat liver) (Lawrence, J.B. (1210) 146)

Golgi complex
Sialyltransferase; Glycanase; Endo F; Glycoprotein; Deglycosylation (Fast, D.G. (1202) 325)

Golgi membrane kinase
Phosphorylation; Casein kinase; Progastrin; Hormone processing; (Human); (Rat) (Vegh, M. (1205) 49)

Gonadotropin-releasing hormone
Cloning; cDNA; Single copy gene; Anti-idiotypic antibody; Novel protein; (Rat pituitary gland) (Levi, L. (1216) 342)

GP42
Basigin; Polymorphic; Gene; Immunoglobulin superfamily; (Mouse) (Cheng, Y. (1217) 307)

Gp330
Heymann nephritis; Plasminogen; Urokinase; Autoantibody (Kanalas, J.J. (1225) 101)

GPE I
Jun and Fos related gene product; Glutathione transferase P gene; DNA binding activity; Transcriptional regulation; (Rat) (Oridate, N. (1219) 499)

GPI-anchored enzyme
Membrane enzyme; Glycosylphosphatidyl inositol; Aminopeptidase P; Brush-border membrane; (Rat intestine) (Koelsch, R. (1190) 170)

GPI-anchored protein
Annexin; Cytoskeleton; Membrane binding (Harder, T. (1223) 375)

G protein
Velocity sedimentation; Reconstitution; Protein–protein interaction; Chemotaxis; Chemoattractant receptor (Bommakanti, R.K. (1209) 69)

Phosphatidylcholine; Phospholipase; Diacylglycerol; Phosphatidic acid; Protein kinase C (Exton, J.H. (1212) 26)

PACAP receptor; cDNA cloning; Gene expression; Inositol phosphate; (Bovine) (Miyamoto, Y. (1218) 297)

Adenosine receptor A_{2A}; Guanine nucleotide; Magnesium ion (Mazzoni, M.R. (1220) 76)

Vasoactive intestinal peptide (VIP); VIP receptor; Adenylyl cyclase; (Human liver) (Rodríguez-Henche, N. (1221) 193)

Mac-1; Complement fragment C5a; (Monocyte) (Monk, P.N. (1221) 323)

cyclic AMP; Retinoic acid; Retinoic acid nuclear receptor; Protein kinase A; Teratocarcinoma differentiation; (Human) (Kurie, J.M. (1222) 88)

Bromocryptine; Lactation; Lipolysis; Adipocyte; (Rat) (Moreno, F.J. (1222) 203)

Pancreatic islet; GTPase; Secretory granule; Insulin secretion (Kowluru, A. (1222) 348)

Insulin secretion; Lipid messenger; Pancreatic islet; Secretory granule; GTPase (Kowluru, A. (1222) 360)

Phosphoinositidase C; Immunological detection (Kim, G.-D. (1222) 369)

Pertussis toxin (IAP); Differentiation; 3T3-L1 cell; PI-PLC; Insulin (Uehara, T. (1224) 302)

Phosphatidylinositol 3-kinase; SH2 domain; SH3 domain; Receptor protein-tyrosine kinase; Signal transduction (Fry, M.J. (1226) 237)

G_s protein
Dopamine D_1 receptor; Binding site; Synthetic peptide; Receptor binding (König, B. (1223) 261)

G protein β subunit
Central nervous system; PCR; cDNA cloning; In situ hybridization; (*Lymnaea stagnalis*) (Knol, J.C. (1222) 129)

G-protein-coupled receptor
Mating pheromone; Novobiocin; SST2/STE; Pheromone receptor (Pocklington, M.J. (1224) 401)

G protein, small
Mandibular condylar chondrocyte; Mechanical stress; Signal transduction; Protein phosphorylation; Precartilage chromatin protein (Basdra, E.K. (1222) 315)

Gramicidin
Acylgramicidin; Acylprotein; Lipid polymorphism (Vogt, T.C.B. (1193) 55)

NMR, ^{129}Xe-; Transport; Ultraviolet photolysis; Blocking (McKim, S. (1193) 186)

Gramicidin D
P-glycoprotein; Glycoprotein; Ionophore; Chemosensitizer; Cation efflux; Valinomycin (Loe, D.W. (1190) 72)

Grana stacking/unstacking
Thylakoid; Phosphorylation; Light harvesting complex; Lateral migration (Georgakopoulos, J.H. (1188) 380)

Granulation tissue
Collagen; Fibronectin; Fibroblast; cDNA cloning; Gene expression; (Rat) (Glumoff, V. (1217) 41)

Granulation-tissue fibroblast
Cell–fibronectin interaction; Integrin (Häkkinen, L. (1224) 33)

Granulocyte colony-stimulating factor
Denaturation; Deprotonation; *O*-linked sugar chain; Thermodynamic model; (Human) (Hasegawa, M. (1203) 295)

Colony-stimulating factor; Granulocyte-macrophage colony-stimulating factor; Macrophage colony-stimulating factor; Mesangial cell; Glomerulosclerosis (Jadus, M.R. (1224) 181)

Granulocyte-macrophage colony-stimulating factor
Colony-stimulating factor; Macrophage colony-stimulating factor; Granulocyte colony-stimulating factor; Mesangial cell; Glomerulosclerosis (Jadus, M.R. (1224) 181)

Granulomatous disease
NADPH oxidase; Flavocytochrome; Protein structure (Thrasher, A.J. (1227) 1)

Granulosa cell
Angiotensin II; Receptor; Antagonist (Ohnishi, J. (1192) 286)

Granulosa cell culture
Ganglioside synthesis; Cholera toxin B subunit; Anti-GM1 antibody; LH receptor (Hattori, M.-a. (1221) 47)

Graves' disease
Mutation; Genetics; Thyrotropin receptor; Autoimmunity; Allele-specific amplification (Bohr, U.R.M. (1216) 504)

Green alga
Photosystem II; Cytochrome; *psbE*; *psbF*; *trnM*; Chloroplast genome; (*Chlamydomonas reinhardtii*) (Alizadeh, S. (1188) 439)

Griseoviridin
Group A antibiotic; Restrained molecular dynamics; Rotating frame NOE; Three-dimensional structure; NMR, two-dimensional (Jayaraman, G. (1201) 149)

***Gro*EL**
Chaperonin; Folding; Guanidine hydrochloride; Fluorescence; Circular dichroism; Unfolding intermediate (Mizobata, T. (1209) 83)

Group A antibiotic
Griseoviridin; Restrained molecular dynamics; Rotating frame NOE; Three-dimensional structure; NMR, two-dimensional (Jayaraman, G. (1201) 149)

Group II phospholipase A_2
Human hepatocellular carcinoma; Phosphatidylglycerol; Overexpression (Ying, Z. (1226) 201)

Growth
pH effect; Flagellar motor; NMR, ^{31}P-; (*R. sphaeroides*) (Packer, H.L. (1188) 101)

NADH oxidase; cyclic AMP; Plasma membrane; (Porcine liver) (Morré, D.J. (1224) 566)

Growth control
Plasma membrane electron transport; Bombesin; Sodium ion/proton antiport; Transferrin (Sun, I.L. (1221) 206)

Growth cycle
Trehalase; Vacuole; Cytosol; Enzyme activity; (Yeast); (*S. cerevisiae*) (San Miguel, P.F. (1200) 155)

Growth factor
Interleukin-3; Molecular evolution; Hemopoiesis (Burger, H. (1217) 195)

Osteonectin regulation; Cartilage matrix; Cytokine; SPARC; Chondrocyte (Chandrasekhar, S. (1221) 7)

Nucleotide sequence; Thymidine phosphorylase; Platelet-derived endothelial cell growth factor (Usuki, K. (1222) 411)

Calpain; Calpastatin; Corticosterone; Myogenesis; Proteolysis, Ca^{2+}-dependent (Cottin, P. (1223) 170)

Growth hormone
Insulin-like growth factor-I; IGF-I; Bone growth; Protein synthesis (Martínez, A.J. (1199) 101)

Cyp4a–10; Testosterone; Cytochrome *P*-450 regulation; Development (Henderson, C.J. (1200) 182)

Growth hormone receptor; Crystallography; Mutant; Cytokine (Beattie, J. (1203) 1)

Inclusion body; Detergent–protein interaction; Conformation; (Porcine) (Cardamone, M. (1206) 71)

Growth hormone receptor
Growth hormone; Crystallography; Mutant; Cytokine (Beattie, J. (1203) 1)

Growth inhibitor
Characterization; Cell growth; (Hamster liver) (Hashimoto, C. (1220) 107)

Cell proliferation; Proteinase inhibitor; Urinary trypsin inhibitor; Mitogen; Cell-surface proteinase; (Human) (Perry, J.K. (1221) 145)

Growth-retarded mouse
Ornithine decarboxylase; Chromophobic cell; Anterior pituitary gland (Hibasami, H. (1226) 110)

GRP 75
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Gs
Ethanol; Stimulatory GTP-binding regulatory protein; S49 murine lymphoma cell; Cycloheximide; Puromycin (Nakamura, J. (1209) 111)

GSH
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GSSG
GSH; Glutathione-protein mixed disulfide; Rat blood; Oxidative stress; Glucose (Di Simplicio, P. (1199) 245)

GTP
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GTP-binding protein
Hydrogenase; DNA sequencing; Nickel; *hyp*; (*B. japonicum*) (Fu, C. (1184) 135)

Elongation factor 1α; Elongation factor; Codon usage; Phylogeny; (*S. solfataricus*) (Arcari, P. (1217) 333)

Rho protein; C3 exoenzyme; ADP-ribosylation; Tissue specificity (Fritz, G. (1222) 331)

Nucleoside diphosphate kinase; Signal transduction; (*Avena sativa*) (Sommer, D. (1222) 464)

GTP binding protein
Ran/TC4 protein; RCC1; RanBP1; HTF9A (Butler, G. (1219) 711)

GTP-cyclohydrolase I
Vitiligo; Tetrahydrobiopterin; Catecholamine; Phenylalanine hydroxylase; 4a-hydroxy-tetrahydrobiopterin dehydratase; Phenylethanolamine-*N*-methyl transferase (Schallreuter, K.U. (1226) 181)

GTPase
Transglutaminase; Site-directed mutagenesis; GTPase activity (Lee, K.N. (1202) 1)

Pancreatic islet; G protein; Secretory granule; Insulin secretion (Kowluru, A. (1222) 348)

G protein; Insulin secretion; Lipid messenger; Pancreatic islet; Secretory granule (Kowluru, A. (1222) 360)

GTPase activity
Transglutaminase; Site-directed mutagenesis; GTPase (Lee, K.N. (1202) 1)

dGTP
Purine nucleoside phosphorylase; Deoxyguanosine kinase; Mouse model (Snyder, F.F. (1227) 33)

Guanidine
Denaturation; Cytochrome *c*; Calcium chloride (Ahmad, Z. (1207) 223)

Guanidine hydrochloride
Glutamate dehydrogenase; Thermal stability; Thermostable enzyme; (*S. solfataricus*) (Consalvi, V. (1202) 207)

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Guanylic RNAse T_1
Guanylic RNAse Pb_1; Dinucleoside phosphonate; NMR, ^{31}P- (Yakovlev, G.I. (1202) 143)

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Halophile
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Heme-histidine orientation
Octamethylhemin; Kinetic analysis; Heme-globin contact (Neya, S. (1208) 31)

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Hepoxilin B_3
Hepoxilin A_3; Calcium ion; Potassium ion; Second messenger system (Pace-Asciak, C.R. (1215) 1)

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Histidinemia
Histidase; cDNA; Polyadenylation signal; *N*-Glycosylation; (Human) (Suchi, M. (1216) 293)

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Homeodomain
Homeobox; Transcription; Development; Wounding; Polymerase chain reaction; (*Brassica napus*) (Boivin, R. (1219) 201)

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Hydropathy scale
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12-Hydroxyicosatetraenoic acid
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12-Hydroxyicosatrienoic acid
12-Hydroxyicosatetraenoic acid; Cytochrome *P*-450; Lipoxygenase; Arachidonic acid (Yamamoto, S. (1210) 217)

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L-2-Hydroxyglutarate dehydrogenase
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L-2-Hydroxyglutaric acidemia
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7α-Hydroxylase activity
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11β-Hydroxylation
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14α-Hydroxylation
Cytochrome *P*-450; Protein purification; 11β-Hydroxylation; 11β-Hydroxylase; Steroid; (*Curvularia lunata*) (Suzuki, K. (1203) 215)

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Hypertriglyceridemia
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Nitrofen; T_3 receptor; Development; Triodothyronine; (Human lung) (Brandsma, A.E. (1201) 266)

Hypoxanthine-phoshoribosyltransferase
Selectable marker; Embryonal stem cell; (*E. coli*); (Murine fibroblast) (Spring, K.J. (1218) 158)

Hypoxia
S-Adenosylmethionine; Methionine; Phosphatidylcholine; Liver cirrhosis; Methylation (Chawla, R.K. (1199) 45)

Microvascular; Endothelium; Gene expression; Oxygen regulated protein (ORP) (Mansbridge, J. (1223) 209)

Hypusine
Mimosine; Cell cycle; Posttranslational modification (Hanauske-Abel, H.M. (1221) 115)

I

IC-21 Macrophage
Monochlorobimane; Glutathione-*S*-transferase; Enzyme kinetics (Young, P.R. (1201) 461)

Icosanoid
Isoprostane; Prostaglandin; Lipid peroxidation; Free radical (Morrow, J.D. (1210) 244)

Oxylipin; Marine algae; Biosynthesis; Structure elucidation (Gerwick, W.H. (1211) 243)

Active sensitization; Membrane phospholipid; Allergen challenge; Serum; Alveolar macrophage; (Guinea-pig) (M'Rini, C. (1213) 46)

Arachidonic acid; Docosahexaenoic acid; Docosapentaenoic acid; Icosapentaenoic acid; Fish oil; Glyceryl ether; Nutrition; ($n-3$) Fatty acid; Plasmalogen; Platelet-activating factor; Transacylase (Blank, M.L. (1214) 295)

Short-term continuous feeding; Icosapentaenoic acid; Polyunsaturated/saturated fatty acid ratio (P/S ratio); Septic shock (Utsunomiya, T. (1214) 333)

Thrombocyte; Platelet; U-46619; Platelet-activating factor; Leukotriene; Lipoxin; Thrombin; Fibrinogen; Hemostasis; (Rainbow trout); (*O. mykiss*) (Lloyd-Evans, P. (1215) 291)

Peroxisome; β-oxidation; Thromboxane; Zellweger syndrome (De Waart, D.R. (1226) 44)

Fatty acid; Interleukin-1; Lymphocyte; Cytokine (Rotondo, D. (1223) 185)

Icosanoid metabolism
Arachidonic acid; Ethanol; Phospholipase A_2; Macrophage; (Mouse) (Balsinde, J. (1210) 195)

Icosapentaenoic acid
Docosahexaenoic acid; Ethyl ester; Fatty Acid; Platelet; Monocyte; (Red blood cell); (Human) (Marangoni, F. (1210) 55)

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Linolenic acid; Metabolism; Desaturation; Elongation; (Fish) (Mourente, G. (1212) 109)

Phospholipase A_2; Phospholipase A_2, type II; Docosahexaenoic acid; Arachidonic acid; Alkenylacylglycerophosphoethanolamine; (Rabbit) (Shikano, M. (1212) 211)

Micellar fatty acid; Triacylglycerol; Phospholipid; Intestine; Fatty acid; (CaCo-2 cell) (Ranheim, T. (1212) 295)

Fatty acid metabolism; Leukotriene; Lipoxin; Lipoxygenase products; Arachidonic acid; Chemotaxis; Leukocyte; (Rainbow trout); (*O. mykiss*) (Ashton, I. (1214) 253)

Arachidonic acid; Docosahexaenoic acid; Docosapentaenoic acid; Icosanoid; Fish oil; Glyceryl ether; Nutrition; ($n-3$) Fatty acid; Plasmalogen; Platelet-activating factor; Transacylase (Blank, M.L. (1214) 295)

Short-term continuous feeding; Polyunsaturated/saturated fatty acid ratio (P/S ratio); Icosanoid; Septic shock (Utsunomiya, T. (1214) 333)

Icosatrienoic acid
Cytochrome *P*-450; Arachidonic acid; Site-directed mutagenesis; *P*-450 2B subfamily; Heterologous expression; Structure–function relationship (Laethem, R.M. (1206) 42)

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IgE antibody
Glutathione *S*-transferase; Allergy; (*D. pteronyssinus*) (O'Neill, G.M. (1219) 521)

IgE-binding determinant
Allergen; Venom; Identification; (*M. pilosula*) (Donovan, G.R. (1204) 48)

IGF_1
TGF-β; Transferrin; Differentiation; Proliferation; Arachidonic acid; Phospholipid release (Wikiel, H. (1211) 161)

IGF-1
Phosphate transport; Insulin; Myoblast; Skeletal muscle (Polgreen, K.E. (1223) 279)

IGF-I
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IGF1 receptor
Insulin-like growth factor I; ^{125}I-labeling; Characterization; (Human) (Schäffer, L. (1203) 205)

IgG subclass
Immunodeficiency; (LEC rat) (Ikeda, Y. (1200) 277)

IL-1
Acute phase protein; AP-1; NFkB; IL-6; Zinc; Cadmium; (Human liver); (HepG2 cell) (Daffada, A.A.I. (1222) 234)

IL-6
Acute phase protein; AP-1; NFkB; IL-1; Zinc; Cadmium; (Human liver); (HepG2 cell) (Daffada, A.A.I. (1222) 234)

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^{125}I-labeling
Insulin-like growth factor I; IGF1 receptor; Characterization; (Human) (Schäffer, L. (1203) 205)

Image analysis
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Immobilization
Crosslinking; Oxygen evolution; Oxygen stabilization; Extrinsic protein (Enami, I. (1185) 75)

Heat-inactivation; Oxygen evolution; Extrinsic protein; Thermal stabilization (Enami, I. (1186) 52)

Immortal fibroblast
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Immortalization
Mouse fibroblast; Thermal analysis; Mortalin; p53; p81 (Kaul, S.C. (1201) 389)

Immune complex independent
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Immune cytolysis
Thiol–disulfide exchange reaction; Membrane attack complex; Perforin; CD59 (Hatanaka, M. (1209) 117)

Immunoaffinity chromatography
Selenoprotein; Monoclonal antibody; Heparin agarose; Radioimmunoassay; (Human plasma) (Åkesson, B. (1204) 243)

Tubulin; Refolding; *gro*EL; Chaperone protein (Phadtare, S. (1208) 189)

Immunoaffinity purification
Fatty acid-binding protein; Mammary epithelial cell; Differentiation; Phosphorylation; Mass spectrometry (Nielsen, S.U. (1211) 189)

Immunoblotting
Peroxisome; Beta-oxidation; Enzyme induction; Enzyme stabilization; Clofibrate; (Heart); (Liver); (Rat) (Kvannes, J. (1201) 203)

3β-Hydroxysteroid; Membrane topology; Microsome; Proteinase treatment; Electrophoresis; (Human placenta) (Alvarez, C.I. (1207) 102)

Thromboxane A_2; Monocyte (Orlandi, M. (1215) 285)

Immunochemistry
Aldose reductase; Aldehyde reductase; Kidney protein; Kinetics; Hyperosmotic stress; (Human); (Kidney) (Robinson, B. (1203) 260)

Immunocytochemistry
Calretinin; RNAase protection assay; Western blot; Hybridization, in situ; (Rat testis); (Leydig cell) (Strauss, K.I. (1219) 435)

Immunodeficiency
IgG subclass; (LEC rat) (Ikeda, Y. (1200) 277)

Immunodetection
Anti-peptide antibody; Sodium ion/phosphate cotransporter; Kidney; (Rat); (Rabbit); (Bovine) (Delisle, M.-C. (1190) 289)

Immunoelectron microscopy
Maillard reaction; Glycation; Aging; Basement membrane; Eye (Marion, M.S. (1191) 33)

Immunogenecity
Purification; Oligosaccharide specificity; Circular dichroism; (*V. villosa* lectin) (Qian, R. (1201) 61)

Immunogenic peptide
Circular dichroism; Fourier transform infrared spectroscopy; Curaremimetic toxin; (Snake) (Lamthanh, H. (1203) 191)

Immunoglobulin
Atomic force microscopy; Ferritin; Apoferritin; Hemoglobin; 1,2-Dihexadecanoyl-rac-glycero-3-phosphatidylcholine (DPPC) (Yang, J. (1199) 105)

Immunoglobulin gene sequence
Hashimoto's thyroiditis; Thyroglobulin; Monoclonal antibody; Autoantibody (McIntosh, R.S. (1227) 171)

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GP42; Basigin; Polymorphic; Gene; (Mouse) (Cheng, Y. (1217) 307)

Immuno-gold labeling
Cytochrome *c* oxidase; Respiration; Cytoplasmic (plasma) membrane; Intracytoplasmic (thylakoid) membrane; Localization; Cyanobacteria; (*Anacystis nidulans* R2); (*Synechococcus* PCC7942) (Peschek, G.A. (1187) 369)

Immunohistochemistry
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S100β; Glial activation; Alzheimer's disease; ELISA; Cytokine (Van Eldik, L.J. (1223) 398)

Immunoliposome
Cytotoxicity; Endocytosis (Suzuki, S. (1224) 445)

Immunological cross-reaction
Cytochrome *P*-450; Antibody; (*Euglena gracilis*) (Briand, J. (1203) 199)

Immunological detection
G protein; Phosphoinositidase C (Kim, G.-D. (1222) 369)

Immunology
Natural killer cell; Aminopeptidase; Cytotoxicity; Ectoenzyme; Tumor associated antigen (Amoscato, A.A. (1221) 221)

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β-1,3-D-Glucan; Macrophage; Binding characteristic; Radioactive labelling; (Mouse) (Konopski, Z. (1221) 61)

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NMR; Immunosuppressant; FK506 binding protein; Cyclophilin; Histidine; pH titration; Acid constant (Yu, L. (1209) 24)

Immunosuppressant
NMR; Immunophilin; FK506 binding protein; Cyclophilin; Histidine; pH titration; Acid constant (Yu, L. (1209) 24)

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Leucinostatin A; Ionophore; Antibiotic; T lymphocyte; Cyclosporin A (Csermely, P. (1221) 125)

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Ribosome-inactivating protein; RNA *N*-glycosidase; (*P. dioica*) (Parente, A. (1216) 43)

IMP dehydrogenase
Mycophenolic acid; Amplification; Mutation; (Mouse) (Lightfoot, T. (1217) 156)

Import receptor
Protein import; Mitochondrion; Cytochrome biogenesis; Chaperone; Protein folding (Schwarz, E. (1187) 270)

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o-Phthalaldehyde; Creatine kinase; Isoindole derivative; (Rabbit muscle) (Sheikh, S. (1203) 276)

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Inborn error
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Inclusion body
Growth hormone; Detergent–protein interaction; Conformation; (Porcine) (Cardamone, M. (1206) 71)

Inclusion complex
Cyclodextrin; Crystal structure analysis; Computer graphics; NMR; Indomethacin (Myles, A.M.C. (1199) 27)

Indirect pathway
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Indocarbocyanine
Scanning calorimetry; Bilayer; Partitioning; Phospholipid; Thermodynamics; Regular solution (Spink, C.H. (1191) 164)

Indole-3-acetic acid
L-Tryptophan aminotransferase; Indolepyruvate decarboxylase; Thiamine diphosphate; (*E. cloacae*) (Koga, J. (1209) 241)

Indole-3-glycerol-phosphate synthase
Archaea; TIM-barrel; Thermostability; (*S. solfataricus*) (Andreotti, G. (1208) 310)

Indolepyruvate decarboxylase
L-Tryptophan aminotransferase; Indole-3-acetic acid; Thiamine diphosphate; (*E. cloacae*) (Koga, J. (1209) 241)

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Cyclodextrin; Inclusion complex; Crystal structure analysis; Computer graphics; NMR (Myles, A.M.C. (1199) 27)

Carbonyl reductase; Chemical modification; Arginine residue; (Rabbit kidney) (Higuchi, T. (1199) 81)

Induced electric dipole
Dielectrophoresis; Cell electrodynamics; Cell membrane; Membrane capacitance (Mahaworasilpa, T.L. (1193) 118)

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Phenylalanine ammonia-lyase; Subunit structure; Inhibition; (Cotton) (Dubery, I.A. (1207) 24)

Inflammation
Proteolysis; Oxidation; α_1-Proteinase inhibitor; Metalloproteinases; Metastasis (Zhang, Z. (1199) 224)

PGH synthase; Prostaglandin metabolism; Cyclooxygenase; Baculovirus; Gene expression; Recombinant DNA; DNA (Barnett, J. (1209) 130)

Lipoxin; Lipoxin biosynthesis (Serhan, C.N. (1212) 1)

Serum amyloid A gene; mRNA; Amyloidosis; Gene expression; (Mink) (Rygg, M. (1216) 402)

Gene expression; RT-PCR; Gene family; Avidin; (Chicken) (Kunnas, T.A. (1216) 441)

Cytochrome *P*-450; Glucocorticoid; Interleukin-1; Interleukin-6; Endotoxin (Morgan, E.T. (1219) 475)

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Infrared
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Infrared spectroscopy
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Glucoamylase G2; Protein conformation; Circular dichroism (Urbanova, M. (1203) 290)

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ATPase; Proton transport; Fluoroaluminate; (Yeast) (Rapin-Legroux, C. (1184) 127)

Cytolysin; Calcium ion; Colloid-osmotic hemolysis; Hemolysis; (*V. vulnificus*) (Park, J.-W. (1194) 166)

Retinoic acid; Thyroxine binding; Binding site; Erythrocyte; (Human) (Smith, T.J. (1199) 76)

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Phenylalanine ammonia-lyase; Induction; Subunit structure; (Cotton) (Dubery, I.A. (1207) 24)

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Insulin; Phosphorylase inactivation; Glucose 6-phosphate; Phosphorylase kinase; Allosteric effect (Villar-Palasi, C. (1224) 384)

Elastase; Cathepsin G; Dihydrouracil derivative (Groutas, W.C. (1227) 130)

Inhibition kinetics
Bifunctional inhibitor; Amylase/trypsin inhibitor; Protein denaturation; (*E. coracana*) (Alagiri, S. (1203) 77)

Proteinase inhibitor; Proteinase; Chymotrypsin inhibitor; Barley (Greagg, M.A. (1222) 179)

Inhibition, potent
ATPase, Na^+/K^+-; Silver; Liposome; Reversible interaction (Hussain, S. (1190) 402)

Inhibitor
ATPase, H^+/K^+-; Tertiary amine; Potassium ion activation (Swarts, H.G.P. (1189) 143)

Calcium ion pump; Bis-phenol; Mobilization of calcium; Calcium ion, intracellular; (Endoplasmic reticulum) (Brown, G.R. (1195) 252)

Papain; Cysteine proteinase; Hydrogen bond; Oxyanion hole; Thioamide (Foje, K.L. (1201) 447)

Photoaffinity labeling; UDP-glucuronosyltransferase; Bile acid; Glucuronidation; (Rat liver) (Radominska, A. (1205) 336)

Cell proliferation; Thioallyl compound; Smooth muscle cell; Endothelial cell; *S*-Allylmercaptocysteine (Lee, E.S. (1221) 73)

α_1 Inhibitor
X-ray scattering; Domain structure; Methylamine; Chymotrypsin complex; (Rat) (Österberg, R. (1207) 152)

Inhibitor binding site
Fatty acid oxidation; Carnithine palmitoyltransferase; (Liver mitochondrion); (Rat) (Kashfi, K. (1212) 245)

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ATP-synthase; δ-Subunit; ϵ-Subunit; Temperature dependence; Co-reconstitution; (*M. luteus*) (Grüber, G. (1186) 43)

Inhibitory agent
Endothelin; Endothelin receptor; Endothelin receptor antagonist (Wu-Wong, J.R. (1224) 288)

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Proteinase inhibitor; Primary structure; Subtilisin inhibitor-like protein; (*S. cacaoi*) (Kojima, S. (1207) 120)

Initiation factor-2
Protein synthesis; Eukaryote; PCR; cDNA cloning; (Rabbit) (Price, N.T. (1216) 170)

Initiation factor-2B
Protein synthesis; Eukaryote; Guanine nucleotide exchange factor (Price, N.T. (1217) 207)

Initiation of DNA replication
DnaA protein; Bacterium; Cell cycle control; (*E. coli*) (Skarstad, K. (1217) 111)

Initiator
TFIID; Promoter; In vitro transcription; DNase I footprinting (Wang, J.C. (1216) 73)

Transcription factor; Promoter; In vitro transcription; DNAase I footprinting (Wang, J.C. (1218) 308)

Injurin
Hepatocyte growth factor; Liver regeneration; MRC-5; (Human) (Okazaki, H. (1220) 291)

Inner membrane
Mitochondrion; Anion channel; Phosphate, inorganic; Thyroid; Phosphate; (Liver) (Ng, L.T. (1183) 180)

Inorganic phosphate uptake
Intracellular inorganic phosphate; Nucleotide catabolism; Purine riboside; Nucleotide pool (Marcussen, M. (1194) 197)

Inorganic pyrophosphatase
Enzyme purification; (*M. thermoautotrophicum* strain ΔH) (Van Alebeek, G.-J.W.M. (1206) 231)

Glucose-6-phosphatase; Microsome; Carbamoyl-phosphate:glucose phosphotransferase; 3-Mercaptopicolinic acid; (Rat liver) (Foster, J.D. (1208) 222)

Inositol
Sodium pump; HL-60 cell; Protein kinase C (Allard, J. (1220) 66)

Inositol phosphate; Glycerophosphoinositol; HL-60; Hemopoietic cell differentiation (Mountford, J.C. (1222) 101)

Inositol phosphate
PACAP receptor; cDNA cloning; G-protein; Gene expression; (Bovine) (Miyamoto, Y. (1218) 297)

Inositol; Glycerophosphoinositol; HL-60; Hemopoietic cell differentiation (Mountford, J.C. (1222) 101)

Parathyroid hormone; Parathyroid hormone-related protein; cyclic AMP; Pulmonary surfactant; Lung development; (Rat) (Rubin, L.P. (1223) 91)

Hepatocyte; Calcium entry; 2,5-Di(*tert*-butyl)hydroquinone; Thapsigargin; Signaling (Kass, G.E.N. (1223) 226)

Endothelin; Parathyroid hormone; UMR-106 cell; PLC inhibitor; Intracellular calcium; PTX (Tatrai, A. (1224) 575)

Inositol phospholipid
Phosphatidylinositol cycle; Plasma membrane; Phospholipase C (Sillence, D.J. (1224) 247)

Inositol-1,3,4-trisphosphate kinase
Enzyme inhibition; Protein purification (Hughes, P.J. (1223) 57)

Inositol 1,4,5-trisphosphate
Thyrotropin; Phospholipase C; Calcium ion, intracellular; Arachidonic acid; (Thyroid cell); (Rat) (Wang, X.-D. (1223) 101)

PAF; Prostaglandin E_2; Autocrine; cyclic AMP; Macrophage (Asmis, R. (1224) 295)

Neonatal cardiac myocyte; α_1-Adrenergic receptor; Calcium; Cardiac hypertrophy (Hansen, C.A. (1224) 517)

Insect cell line
Protein kinase C; Phorbol ester; Diacylglycerol; Phospholipid; H-7; (*C. fumiferana*) (Gupta, J. (1203) 210)

Insect midgut
Vacuolar H^+-ATPase; ATPase, H^+-; cDNA cloning; (*M. sexta*) (Gräf, R. (1190) 193)

Insect resistance
cDNA; α-Amylase inhibitor; Arcelin; Phytohemagglutinin; (*Phaseolus vulgaris*) (Suzuki, K. (1206) 289)

Inside-out vesicle
Plasma membrane purification; Sterol; Phospholipid; ATPase, H^+- (Hernández, A. (1195) 103)

In situ hybridization
Parietal cell; Gastric mucosa; Mucosa; Gastric ulcer; ATPase, H^+/K^+- (Bamberg, K. (1190) 355)

DNA-binding protein; Oogenesis; Embryogenesis; Neurogenesis; (*Drosophila*) (Stroumbakis, N.D. (1218) 245)

G protein β subunit; Central nervous system; PCR; cDNA cloning; (*Lymnaea stagnalis*) (Knol, J.C. (1222) 129)

Insulin
Insulin receptor; Glucose transport; Phosphodiesterase; cyclic AMP; OPC 3911; Obesity; (Rat adipocyte) (Eriksson, J.W. (1189) 163)

Amiloride sensitivity; Sodium ion channel; Protein trafficking; Aldosterone; Forskolin; Protein synthesis (Coupaye-Gerard, B. (1190) 449)

Taurine transporter; TAUT; Volume regulation; Preimplantation embryo; Preimplantation development (Van Winkle, L.J. (1191) 244)

AMP-dependent kinase; Glucose 6-phosphate; Glycogen synthase (Villar-Palasi, C. (1207) 88)

Excipient; NMR, ^{1}H-; Amide exchange; Allosteric conformation (Hardaway, L.A. (1208) 101)

Zinc; Free radical; Euglycaemic clamp; Autofluorescence; (Rat) (Faure, P. (1209) 260)

Triacylglycerol-rich lipoprotein; VLDL; Apolipoprotein B; Liver; Hepatocyte; Intestine; Diabetes; Fatty acid (Sparks, J.D. (1215) 9)

Carnitine; Promoter (Montermini, L. (1219) 237)

Insulin receptor; Tyrosine kinase; Phosphorylation; Mitogenesis (Levy-Toledano, R. (1220) 1)

Cell cycle; G_1; Proliferation; Insulin-like growth factor; Daidzein; Casein kinase 2; MAP2 kinase (Higashi, K. (1221) 29)

Hepatocyte; Phospholipase; Phosphatidate; Diacylglycerol; Phosphatidylcholine; (Rat) (Donchenko, V. (1222) 492)

DNA topoisomerase I; Phosphorylation; 12-*O*-Tetradecanoylphorbol 13-acetate; TPA; Epidermal growth factor; Camptothecin; (Fibroblast); (Hepatoma cell); (Mouse) (Samuels, D.S. (1223) 77)

Phosphate transport; IGF-1; Myoblast; Skeletal muscle (Polgreen, K.E. (1223) 279)

G protein; Pertussis toxin (IAP); Differentiation; 3T3-L1 cell; PI-PLC (Uehara, T. (1224) 302)

Phosphorylase inactivation; Glucose 6-phosphate; Phosphorylase kinase; Inhibition; Allosteric effect (Villar-Palasi, C. (1224) 384)

Insulin A-chain
NMR, ^{1}H-; Solution structure; (Bovine) (Hawkins, B.L. (1209) 177)

Insulin-like growth factor
DNA sequence; Binding protein-1; Gene structure; (Rat) (Lacson, R. (1218) 95)

Cell cycle; G_1; Proliferation; Insulin; Daidzein; Casein kinase 2; MAP2 kinase (Higashi, K. (1221) 29)

Receptor binding; Acid treatment; Perturbation (Kiess, W. (1223) 179)

Insulin-like growth factor I
IGF-I; Growth hormone; Bone growth; Protein synthesis (Martínez, A.J. (1199) 101)

^{125}I-labeling; IGF1 receptor; Characterization; (Human) (Schäffer, L. (1203) 205)

Insulin-like growth factor II
Gene expression; Receptor; Protein purification; (Human) (Miyagishima, T. (1203) 155)

Insulinopenia
Glucose metabolic index; Hyperglycemia; Myocardium; Diaphragm; Skeletal muscle (Kainulainen, H. (1225) 275)

Insulin receptor
Insulin; Glucose transport; Phosphodiesterase; cyclic AMP; OPC 3911; Obesity; (Rat adipocyte) (Eriksson, J.W. (1189) 163)

Kinase; Protein–protein interaction; Phosphorylation (Sacks, D.B. (1206) 120)

Fatty acid binding protein; Phosphorylation; Soleus muscle; (Rat) (Prinsen, C.F.M. (1215) 103)

Tyrosine kinase; Co-transfection; Insulin resistance; COS 7 cell; (Human) (Maegawa, H. (1216) 425)

Insulin; Tyrosine kinase; Phosphorylation; Mitogenesis (Levy-Toledano, R. (1220) 1)

Insulin resistance
Insulin receptor; Tyrosine kinase; Co-transfection; COS 7 cell; (Human) (Maegawa, H. (1216) 425)

Insulin secretion
Sulfonylurea receptor; Sulfonylurea binding kinetics; Glimepiride; Glibenclamide; Beta cell (Müller, G. (1191) 267)

Sulfonylurea receptor; Photoaffinity labeling; Glimepiride; Glibenclamide; ATP-regulated K^+-channel; Potassium ion channel; Beta cell (Kramer, W. (1191) 278)

Pancreatic islet; GTPase; G protein; Secretory granule (Kowluru, A. (1222) 348)

G protein; Lipid messenger; Pancreatic islet; Secretory granule; GTPase (Kowluru, A. (1222) 360)

Intact chloroplast
Photosystem II; Phosphorylation; LHC II; Protein kinase; Protein phosphatase (Ebbert, V. (1187) 335)

Integral membrane protein
Surface molecule; cDNA sequence; Small intron; (*Schistosoma mansoni*) (Markovics, A. (1218) 273)

Integrin
Vitronectin receptor; α_v gene; Promoter; DNA sequence (Donahue, J.P. (1219) 228)

Chemotaxis; Oncoimmunin-M; HL-60 (Packard, B.Z. (1222) 159)

Granulation-tissue fibroblast; Cell–fibronectin interaction (Häkkinen, L. (1224) 33)

Extracellular matrix; Adenocarcinoma; Arg-Gly-Asp-containing peptide; Phorbol ester; (Colon) (Chiang, H.-S. (1224) 506)

Integrin, $\alpha_5\,\beta_1$-
Sphingosine; Fibronectin; Fibroblast; Monensin; Adhesion (Scita, G. (1223) 29)

Interaction
Papaverine; Vasodilator drug; Micelle; Surfactant; NMR (Yushmanov, V.E. (1189) 74)

Tubulin; DNA; Nuclear protein; High Mobility Group protein 1 (Briolay, A. (1219) 39)

Annexin; Calpactin I; Glial filament; S100 protein; Acrylodan (Bianchi, R. (1223) 361)

Interaction energy
Lattice theory; Bacterial glycocalyx; Phosphatidylinositol; Liposome (Jones, M.N. (1193) 48)

Inter-α-inhibitor
α1-Microglobulin; Bikunin; HI-30; Liver cDNA; (Gerbil); (Hamster) (Ide, H. (1209) 286)

Inter-α-trypsin inhibitor
Multigene family; Gene sequence; Polymerase chain reaction; Proteinase inhibitor (Diarra-Mehrpour, M. (1219) 551)

Interchain hybrid
B subunit; Cholera toxin; Site-specific modification; Receptor binding site (De Wolf, M.J.S. (1223) 285)

Interdigitation
Glycosphingolipid; Lipid bilayer; EPR; Spin label (Boggs, J.M. (1189) 233)

Liposome; Captured volume; Drug delivery (Ahl, P.L. (1195) 237)

Interfacial activation
Pancreatic lipase; Amino terminal; Peptide sequence (Mejdoub, H. (1213) 119)

Interfacial polarization
Electrical impedance; Electrolyte; Erythrocyte; Membrane; Plasma protein; (Blood) (Zhao, T.-X. (1201) 179)

Interfacial property
Phospholipase A_2; Amphipathic α-helical structure; Liposome; Peptide–lipid interaction (Kato, T. (1211) 215)

Interference reflection microscopy
Asbestos; Metastasis; Cell culture; Mesothelioma; Cell substrate adhesion; Fibronectin; Laminin (Lee, M.M. (1226) 151)

Interferon γ
CSF, M-; mRNA; Alternative splicing; PCR; RT-PCR; (Human) (Ohtsuki, T. (1222) 141)

γ-Interferon
Gliadin peptides; Coeliac disease (Cornell, H.J. (1226) 126)

Intergenic region
Genome; Ubiquitin; Ribosomal gene, 5S; rRNA cluster; (*T. pyriformis*) (Guerreiro, P. (1216) 137)

Interleukin 1
Cartilage; ATP, extracellular; P_2-purinoceptor; Transforming growth factor-β; Tumour necrosis factor α (Leong, W.S. (1201) 298)

Cartilage; Bone; Nitric oxide; cDNA cloning (Maier, R. (1208) 145)

Cytochrome *P*-450; Glucocorticoid; Interleukin-6; Inflammation; Endotoxin (Morgan, E.T. (1219) 475)

Prostaglandin; Protein kinase A; Protein kinase C; Osteoblast; (Mouse) (Iitaka, M. (1221) 78)

Immunomodulatory peptide; Cytotoxicity; Tumor necrosis factor α; Lymphomononuclear cell; Monocyte; (Human) (López-Moratalla, N. (1221) 153)

Fatty acid; Lymphocyte; Icosanoid; Cytokine (Rotondo, D. (1223) 185)

Gene expression; Lipopolysaccharide; Probucol; Platelet-derived growth factor; U-937; Reverse transcription-polymerase chain reaction (Li, S.-R. (1225) 271)

Interleukin 1α
Metalloproteinase; Matrix metalloproteinase; Tissue inhibitor-1 (TIMP-1); Gelatinase A; Protein kinase C; (Human uterine cervical fibroblast) (Takahashi, S. (1220) 57)

Interleukin 1β
Phospholipase A_2; Dexamethasone; Annexin; Mesangial cell; (Rat) (Vervoordeldonk, M.J.B.M. (1224) 541)

Transforming growth factor β; Cell proliferation; Cartilage; (Chondrocyte) (Frazer, A. (1226) 193)

Interleukin 2
Lymphocyte, T-; Jurkat T-cell; Ceramide; Sphingosine; DNA synthesis; Sphingomyelinase; Phorbol ester; Ionomycin; PDMP (Borchardt, R.A. (1212) 327)

Interleukin-2 gene
5′ Flanking region; Long interspersed repetitive sequence; (Human) (Jankevics, E. (1217) 235)

Interleukin 3
Molecular evolution; Hemopoiesis; Growth factor (Burger, H. (1217) 195)

Interleukin 6
Cytochrome *P*-450; Glucocorticoid; Interleukin-1; Inflammation; Endotoxin (Morgan, E.T. (1219) 475)

Plasminogen activator inhibitor-1; ELISA; Gene transcription; (Human lung fibroblast) (Samad, F. (1221) 307)

Intermediate
Dopachrome tautomerase; Melanogenesis; Cytotoxicity; (Mammal) (Salinas, C. (1204) 53)

Peroxisome; Cholesterol; Aminotriazole; Cholestyramine; Gemfibrozil (Hashimoto, F. (1214) 11)

Intermediate filament
Cytoskeleton; Lens; α-Tubulin; β-Tubulin; Cephalopod (Tomarev, S.I. (1216) 245)

Glial fibrillary acidic protein; Assembly; S100 protein; Calcium (Bianchi, R. (1223) 354)

Intermembrane space
VDAC; Mitochondrion; VDAC modulator; Membrane channel; Protein purification; (Calf); (*N. crassa*) (Liu, M.Y. (1185) 203)

Interspecies amino acid sequence homology
Fibrillarin; cDNA sequence; GAR domain; RNA-binding motif (Turley, S.J. (1216) 119)

Intestinal active absorption
Glucose transport carrier; Anomeric preference; Glucose preference; Monosaccharide conjugate; Desglycosylation (Mizuma, T. (1200) 117)

Intestinal alkaline phosphatase
Alkaline phosphatase; Monoclonal antibody; Placental alkaline phosphatase (Kodama, H. (1218) 163)

Intestinal calcium transport
24-Fluoro-1α,25-dihydroxyvitamin D-2; 24-Epi-24-fluoro-1α,25-dihydroxyvitamin D-2; Receptor binding; Cell differentiation; Bone calcium mobilization (Imae, Y. (1213) 302)

Intestinal cell line
Cholesterol absorption; Cholesterol; Lovastatin; Fatty acid; (Rat) (Safonova, I.G. (1210) 181)

Intestinal resection
Abdominal radiation; Absorption; Adaptation; Crypt cell production rate; Diabetes; Enterocyte turnover time; (Jejunum) (Thomson, A.B.R. (1191) 197)

Intestinal transport
Biotin uptake; Caco-2 cell; Cultured human intestinal cell (Ma, T.Y. (1189) 81)

Intestine
Iron transport; Caco-2; Regulation iron absorption (Alvarez-Hernandez, X. (1192) 215)

Calcium pump; Age; 1,25-Dihydroxyvitamin D; (Rat) (Armbrecht, H.J. (1195) 110)

Glutamine; Enterocyte; (Rat) (Watford, M. (1200) 73)

Micellar fatty acid; Icosapentaenoic acid; Triacylglycerol; Phospholipid; Fatty acid; (CaCo-2 cell) (Ranheim, T. (1212) 295)

Apolipoprotein; Apolipoprotein B; mRNA; Postprandial; (Human) (Lopez-Miranda, J. (1214) 143)

Triacylglycerol-rich lipoprotein; VLDL; Apolipoprotein B; Liver; Hepatocyte; Insulin; Diabetes; Fatty acid (Sparks, J.D. (1215) 9)

Carbachol; T_{84} cell; Epithelial cell; Chloride secretion; (Human) (McEwan, G.T.A. (1220) 241)

Benzo[a]pyrene; Carcinogen; Transport; P-Glycoprotein (Penny, J.I. (1226) 232)

Intracellular accumulation
Apolipoprotein B; Subcellular fractionation; LDL; Macrophage; Lysosome; Atherosclerosis; Foam cell (Mander, E.L. (1212) 80)

Intracellular calcium
Endothelin; Parathyroid hormone; UMR-106 cell; PLC inhibitor; Inositol phosphate; PTX (Tatrai, A. (1224) 575)

Intracellular calcium ion
Erythrocyte; ATPase, ($Ca^{2+} + Mg^{2+}$)-; EGTA; Chromatography; Calcium ion transport (Yingst, D.R. (1189) 113)

CCK-A receptor; Expression; Pepsinogen; Gastrin; CCK; (Chief cell); (D cell); (HK 293 cell) (Reuben, M. (1219) 321)

Intracellular calcium ion concentration
TiO_2; T24 cell; UV light; Fura-2; Photo-dynamic therapy (Sakai, H. (1201) 259)

Intracellular calcium ion oscillation
Endothelial cell; Histamine; Calcium ion influx, receptor mediated (Oike, M. (1222) 287)

Intracellular calcium rise
Leukotriene B_4; LTB_4 receptor binding assay (Kobayashi, Y. (1215) 280)

Intracellular cholesterol transport
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Intracellular degradation
Apo B-100; Apo A-I; Posttranslational regulation; Butyrate; HepG2 (Kaptein, A. (1213) 349)

Intracellular distribution
Hexokinase isoenzyme; Microheterogeneity; Hepatoma; Neoplastic cell transformation; (Rat liver); (Epithelial rat liver cell) (Rempel, A. (1219) 660)

Intracellular free magnesium
Magnesium ion, intracellular; Polyamine; Mag-fura-2; NMR, ^{31}P- (Günther, T. (1192) 281)

Intracellular inorganic phosphate
Inorganic phosphate uptake; Nucleotide catabolism; Purine riboside; Nucleotide pool (Marcussen, M. (1194) 197)

Intracellular stability
PEG; Dextranase; Storage disorders; Liposomes (Mumtaz, S. (1199) 175)

Intracellular transport
β-VLDL; LDL; Lipoprotein metabolism; Endocytosis; (Rat liver) (Gudmundsen, O. (1210) 63)

Intracytoplasmic (thylakoid) membrane
Cytochrome *c* oxidase; Respiration; Cytoplasmic (plasma) membrane; Localization; Immuno-gold labeling; Cyanobacteria; (*Anacystis nidulans* R2); (*Synechococcus* PCC7942) (Peschek, G.A. (1187) 369)

Intramembrane particle
Red cell membrane protein band 4.2; Cytoskeleton; Hemolytic anemia; Red cell membrane deformability; DNA sequence (Yawata, Y. (1204) 131)

Intramolecular sulfhydryl–disulfide exchange reaction
Bovine mercaptalbumin; Mercaptalbumin; HPLC; Kinetics; Molecular aging; N–A isomerization (Kuwata, K. (1205) 317)

Intranuclear receptor gene
Progesterone receptor gene; Steroid hormone receptor gene; Sequence analysis; (Human) (Misrahi, M. (1216) 289)

Intron
c-myb; Regulation; Gene expression (Seib, T. (1219) 285)

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Lipocalin; Calycin; Protein sequence; Protein structure (Sansom, C.E. (1208) 247)

Invertebrate collagen
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Invertebrate icosanoid
Hydroxyeicosatetraenoic acid; HETE; Hydroid development; Lipoxygenase (Leitz, T. (1213) 215)

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Thylakoid membrane; Lipid; Sucrose; Electron microscopy (YashRoy, R.C. (1212) 129)

In vitro fertilization
Zona pellucida; Bovine egg; Glycoprotein (Noguchi, S. (1201) 7)

In vitro methylation
O^6-Methylguanine-DNA methyltransferase; Methylation; Chloramphenicol acetyltransferase; Transcription; (Human) (Harris, L.C. (1217) 141)

In vitro transcription
TFIID; Initiator; Promoter; DNase I footprinting (Wang, J.C. (1216) 73)

Transcription factor; Initiator; Promoter; DNAase I footprinting (Wang, J.C. (1218) 308)

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In vivo footprinting
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Iodine-125 efflux
Cell volume regulation; Chloride secretion; P-glycoprotein; MDR; Squamous lung carcinoma epithelial S1 cell; (Human) (Munkonge, F.M. (1224) 342)

Iodoacetamidoethylaminonaphthalenesulfonic acid
Nitrothiocyanobenzoic acid cleavage; Creatine kinase, MM; Thiol accessibility; Denaturation by SDS; Fluorescence energy transfer (Clottes, E. (1209) 171)

Iodoacetate
Ischemia; Shift reagent (Ivanics, T. (1221) 133)

***o*-Iodosobenzoate**
Maize; NADP-malic enzyme; Thioredoxin; Sulfhydryl group (Drincovich, M.F. (1206) 10)

Ion channel-forming peptide
Amphipathic α-helical peptide; Lipid–peptide interaction; Liposome (Lee, S. (1191) 181)

Ion channel function
Nicotinic acetylcholine receptor; Membrane fluidity; Lipid composition (Sunshine, C. (1191) 59)

Ion compartmentation
Tetraphenylphosphonium ion (TPP^+); Tetraphenylarsonium ion (TPA^+); Electroneutral diffusion; Lipid-soluble ion; (Fungus) (Slayman, C.L. (1190) 57)

Ion dependence
Glutamate transport; Anion countertransport; Erythrocyte; (Dog) (Sato, K. (1195) 211)

Ion-exchange chromatography
ATPase, Na^+/K^+-; Proteoliposome; Fluorescence labeling; Electrogenic ion transport (Ivashchuk-Kienbaum, Yu.A. (1196) 29)

Ion flux
Permeability; Multiple quantum coherence filter; Relaxation; Vascular endothelial cell (Gruwel, M.L.H. (1224) 228)

Ion pump
Membrane transport; Proton cycling; Sodium ion cycling; Citrate carrier (Lolkema, J.S. (1187) 211)

Ion-spray mass spectrometry
Pseudo-hevein; Hevein; Primary structure; (*H. brasiliensis*) (Soedjanaatmadja, U.M.S. (1209) 144)

Ion transport
Bacteriorhodopsin; Phospholipid bilayer; Reconstitution; Transmembrane; Membrane protein (Muneyuki, E. (1183) 171)

ATPase, Na^+/K^+-; Heterologous expression; Gamma subunit; (Yeast) (Scheiner-Bobis, G. (1193) 226)

Ionic permeability
Renal; Brush-border membrane vesicle; Fluorescence polarization; Membrane fluidity (Medow, M.S. (1191) 219)

Ionic strength
Cytochrome *c* oxidase; Hydrogen peroxide; Cytochrome *c*; Presteady-state kinetics (Lodder, A.L. (1185) 303)

Ionomycin
Cytosolic phospholipase A_2; Thapsigargin; Nifedipine; Lanthanum (Tokumoto, H. (1211) 301)

Lymphocyte, T-; Jurkat T-cell; Ceramide; Sphingosine; DNA synthesis; Sphingomyelinase; Interleukin-2; Phorbol ester; PDMP (Borchardt, R.A. (1212) 327)

Ionophore
Nitrendipine; Valinomycin; Sarcoplasmic reticulum; ATPase, Ca^{2+}-; Calcium ion transport; (Rat) (Beeler, T.J. (1189) 189)

P-glycoprotein; Glycoprotein; Gramicidin D; Chemosensitizer; Cation efflux; Valinomycin (Loe, D.W. (1190) 72)

Niemann-Pick disease; Sphingomyelinase; Cholesterol esterification (Sakuragawa, N. (1213) 193)

Leucinostatin A; Antibiotic; T lymphocyte; Immunosuppression; Cyclosporin A (Csermely, P. (1221) 125)

IP_1 monophosphatase
Iris sphincter smooth muscle; IP_3 5-phosphatase; Calcium; Lithium; Protein phosphorylation; Okadaic acid; Muscle relaxation (Wang, X.-L. (1222) 27)

IP_3 3-kinase
cDNA; Nucleotide sequence; PCR; (Rat) (Thomas, S. (1220) 219)

IP_3 5-phosphatase
Iris sphincter smooth muscle; IP_1 monophosphatase; Calcium; Lithium; Protein phosphorylation; Okadaic acid; Muscle relaxation (Wang, X.-L. (1222) 27)

Iris sphincter smooth muscle
IP_3 5-phosphatase; IP_1 monophosphatase; Calcium; Lithium; Protein phosphorylation; Okadaic acid; Muscle relaxation (Wang, X.-L. (1222) 27)

Iron
Cyanobacterium; Cytochrome; Mössbauer spectroscopy; Photosystem II; (*P. laminosum*) (Picorel, R. (1184) 171)

Photosystem II; Photosynthesis; Cyanobacterium; Non-heme iron; Reaction center; Quinone (Vermaas, W. (1184) 263)

α-Tocopherol; Copper; Lipid peroxidation (Yoshida, Y. (1200) 85)

Erythroblast; Haem; Ferrochelatase; 5-Aminolaevulinic acid synthase; Regulation (Houston, T. (1201) 85)

Copper; Lipid peroxidation; Metal chelator; Free radical; Redox potential (Yoshida, Y. (1210) 81)

Anthracycline; Daunomycin; Friend cell; Hydrogen peroxide; Hemoglobin (Pietrangeli, P. (1224) 89)

Iron binding
Ferrochelatase; Heme biosynthesis; Mutagenesis; Histidine residue; (Human) (Kohno, H. (1209) 95)

Iron-binding domain
Site-directed mutagenesis; Arachidonic acid; 12-Lipoxygenase; Prokaryotic expression; Positional specificity; (Porcine) (Suzuki, H. (1210) 308)

Iron-containing repressor protein
Superoxide dismutase; Manganese enzyme; Transcription activation; Topology; (*E. coli*) (Schrum, L.W. (1216) 186)

Iron deficiency
Cytochrome; Membrane lipid composition; Liver lipid; Oxidative metabolism; (Rat liver mitochondria) (Masini, A. (1188) 46)

Iron oxide
Liposome; Phosphatidylethanolamine; Magnetite; Dextran (Bogdanov, Jr., A.A. (1193) 212)

Iron-quinone complex
Photosystem II; EPR; Carboxylate anion (Deligiannakis, Y. (1188) 260)

Photosystem II; EPR; Carboxylate anion (Petrouleas, V. (1188) 271)

Iron-sulfur
Hydrogenase; Hydrogen activation; Nickel; Energy; Catalysis (Albracht, S.P.J. (1188) 167)

Iron-sulfur center
EPR; Rieske iron-sulfur center; Cytochrome *bc* complex; (*B. firmus*) (Riedel, A. (1183) 263)

Iron-sulfur cluster
Hyperthermophile; Hydrogenase; EPR; Metalloenzyme; (*T. maritima*) (Smith, E.T. (1206) 105)

Iron-sulfur protein
Thylakoid membrane; Cytochrome *bf* complex; Rieske iron-sulfur protein; Electrophoresis, two-dimensional; Microsequence (Yu, S.-G. (1185) 239)

Iron therapy
Liver lipid; Serum lipid; Membrane potential; Phosphorylation potential; (Rat liver mitochondria) (Masini, A. (1188) 53)

Iron transport
Intestine; Caco-2; Regulation iron absorption (Alvarez-Hernandez, X. (1192) 215)

Irreversible inactivation
Reversible unfolding; Autoproteolysis; Disulfide bond; Site-directed mutagenesis; (*A. oryzae*) (Tatsumi, H. (1208) 179)

Irreversible proteinase inhibitor
Papain; Agmatine; Complex; X-ray analysis; Substrate specificity (Matsumoto, K. (1208) 268)

IRS-1
cDNA; (Mouse) (Araki, E. (1221) 353)

Ischemia
Fatty acid oxidation; Acetyl-CoA carboxylase; Carnitine palmitoyltransferase 1; Carnitine acetyltransferase; Malonyl-CoA; Carnitine; Coenzyme A; Beta oxidation (Lopaschuk, G.D. (1213) 263)

Iodoacetate; Shift reagent (Ivanics, T. (1221) 133)

Epithelial polarity; Cytoskeleton; Proximal tubule; Microvillous inclusion disease; Polycystic kidney disease (Leiser, J. (1225) 1)

Tri-Calciphor; Mitochondrion; Calcium ionophore; Calcium; Prostaglandin B_1 (Uribe, S. (1225) 144)

Diabetes; Heart; Metabolism; Glucose oxidation; Glycolysis; (Rat) (Gamble, J. (1225) 191)

Ca^{2+} channel blocker; Methoxyverapamil (Rose, U.M. (1226) 291)

Islet cell autoantigen
Type 1 diabetes; Molecular cloning; Autoimmunity; Autoreactive T cell (Miyazaki, I. (1227) 101)

Isoelectric focusing
Serum albumin; Genetic variant; Amino acid sequence; DNA sequence; Point mutation; (Human) (Galliano, M. (1225) 27)

Isoelectric point
Fluorescence spectroscopy; Photosynthesis; Plastocyanin; Primary structure; Dimorphism; (Tobacco) (Dimitrov, M.I. (1203) 184)

Isoenzyme
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Isoflurane
Anesthetic, volatile; Halothane; Enflurane; Contractility; Calcium; Ryanodine receptor; (Heart) (Lynch III, C. (1194) 109)

Isoform
ATPase, Na^+/K^+-; Hydrogen peroxide; Ouabain; Oxidant; Oxygen radical (Huang, W.-h. (1190) 108)

ATPase, Na^+/K^+-; ATPase, H^+/K^+-; Beta subunit; Evolution; (Chicken) (Yu, H. (1190) 189)

Nucleoside diphosphate kinase; Expression vector; Enzyme localization; (Rat brain) (Fukuchi, T. (1205) 113)

Phosphoribosylpyrophosphate synthetase; Chimeric enzyme; Nucleotide inhibition (Ahmad, I. (1207) 126)

Protein phosphatase; Cobalt; Activation; Myofibril; (Bovine heart) (Chu, Y. (1208) 45)

DNA topoisomerase II; Differentiation; (Adult mouse tissue) (Juenke, J.E.M. (1216) 191)

Calcineurin B; Alternative promoter usage; Testis-specific regulation; cDNA cloning (Chang, C.-D. (1217) 174)

Metallothionein; Chromosome 16; Chloramphenicol acetyltransferase; (Human) (Stennard, F.A. (1218) 357)

GM-CSF receptor; DNA sequence; Alternative splicing (Hu, X. (1223) 306)

Isoform identity
Folate receptor; Trophoblast; Choriocarcinoma cell; (Human placenta) (Prasad, P.D. (1223) 71)

Isoform NHE-3
Sodium ion–proton exchanger; Localization; (Rabbit kidney); (Canine kidney) (Soleimani, M. (1195) 89)

Isoform-specific antibody
14-3-3 protein; PKC inhibitor; (Brain); (Chicken) (Patel, Y. (1222) 405)

Isoindole derivative
o-Phthalaldehyde; Creatine kinase; Inactivation; (Rabbit muscle) (Sheikh, S. (1203) 276)

Isolated glomeruli
Dextran sulfate binding; Glomerular uptake; Isolated perfused kidney; Glomerular basement membrane (Vyas, S.V. (1201) 367)

Isolated perfused kidney
Dextran sulfate binding; Glomerular uptake; Isolated glomeruli; Glomerular basement membrane (Vyas, S.V. (1201) 367)

Isomerization
D-Aspartic acid; Lens; Crystallin; Racemization; (Human) (Fujii, N. (1204) 157)

Isopranoid ether lipid
Glycolipid; Halophile; Structure; Halobacterium; (*Hb. trapanicum*); (*Archaea*) (Trincone, A. (1210) 35)

Isoprenoid biosynthesis
Aldol condensation; Enzyme kinetics; Enzyme purification; HMG-CoA; Radical formation; (Radish); (Maize) (Weber, T. (1211) 85)

Isoprenylation
Ras protein; Farnesyltransferase; Geranylgeranyltransferase; (*S. cerevisiae*) (Caplin, B.E. (1205) 39)

Protein, 67 kDa; cDNA sequence; Gene expression (Asundi, V.K. (1217) 257)

Isoprostane
Prostaglandin; Eicosanoid; Lipid peroxidation; Free radical (Morrow, J.D. (1210) 244)

Isoprotein
Apolipoprotein A-I; Amino acid analysis; Proapolipoprotein A-I (Saku, K. (1217) 29)

Isotope
Desaturation; Deuterium; Linoleic acid; Linolenic acid; (Human) (Emken, E.A. (1213) 277)

Isotope effect
Human placenta; Aldose reductase; Circular dichroism (Bhatnagar, A. (1205) 207)

NMR, ^{1}H-; Ferricytochrome b_5; Hydrogen bonding; Hyperfine shift (Lee, K.-B. (1208) 22)

Isotype
Serum amyloid A; Recombinant; Amyloid fibril (Yamada, T. (1226) 323)

Isozyme
Alkaline phosphatase; (Human brain) (Nishihara, Y. (1209) 274)

Cholecystokinin; Protein kinase C; Enzyme kinetics; (Pancreas) (Pollo, D.A. (1224) 127)

Ito cell
PDGF; PGE; Raf; Mitogenesis; Proto-oncogene expression (Beno, D.W.A. (1222) 292)

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Chorio-decidual cell; 293 cell; SV40 enhancer; *tk* promoter; Transient expression analysis (Smith, D.L. (1219) 465)

Jejunum
Cellular retinol-binding protein, Type II; Dietary fat; (Rat) (Goda, T. (1200) 34)

Glucose absorption; Lactate excretion; Glucose translocation; Small intestine; Once-through perfusion; Respiration rate; (Rat) (Hutchison, J.D. (1200) 129)

Jun and Fos related gene product
Glutathione transferase P gene; GPE I; DNA binding activity; Transcriptional regulation; (Rat) (Oridate, N. (1219) 499)

Jurkat T-cell
Lymphocyte, T-; Ceramide; Sphingosine; DNA synthesis; Sphingomyelinase; Interleukin-2; Phorbol ester; Ionomycin; PDMP (Borchardt, R.A. (1212) 327)

Juvenile hormone
Cuticle protein; Gene cloning; Northern hybridization; S1 nuclease mapping; (*B. mori*) (Nakato, H. (1218) 64)

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Kainate
Glutamate receptor; AMPA; cDNA sequence; Amino acid sequence; RNA splicing; (Human) (Rampersad, V. (1219) 563)

Kallikrein
Purification; Plasma protein; Complement system; (Human) (Pu, X.P. (1208) 338)

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KatF
RpoS; Sigma factor; DNA sequence; (*Salmonella*) (Prince, R.W. (1219) 198)

Kearns-Sayre syndrome
Mitochondrial transcription; mtDNA deletion; Adenosine nucleotide translocator; ATPsynthase (Heddi, A. (1226) 206)

Keratan sulfate
UDP-sugar; Chondroitin sulfate; Oxygen tension (Ysart, G.E. (1221) 15)

Keratinocyte
Fatty acid uptake; Linoleic acid; (Human) (Schürer, N.Y. (1211) 51)

Cell differentiation; Calcium; 1,25-Dihydroxyvitamin D-3 (Van Leeuwen, J.P.T.M. (1221) 167)

Vitamin A; Didehydroretinol; Metabolism; Retinoid-binding protein; Cellular retinoid-binding protein; (HeLa cell); (F9 cell); (CV-1 cell) (Andersson, E. (1224) 349)

Endothelin-1; Receptor; Calcium; (Human) (Yohn, J.J. (1224) 454)

Keratinocyte growth factor
Fibroblast growth factor; Limb regeneration; Blastema; (*N. viridescens*) (Poulin, M.L. (1220) 209)

Ketoacid dehydrogenase
Branched-chain α-ketoacid dehydrogenase; RNA; E1β subunit; Murine tissue-specific expression; cDNA; (Mouse liver) (Chinsky, J.M. (1216) 499)

7-Ketocholesterol
Oxysterol; 7α-Hydroxycholesterol; 7α-Hydroxylase activity; Autoxidation; Hydroxytoluene, butylated (Tamasawa, N. (1214) 20)

α -Ketoglutarate dehydrogenase complex
Dihydrolipoamide succinyltransferase; Chromosomal localization; (Human) (Nakano, K. (1216) 360)

Kidney
Immunodetection; Anti-peptide antibody; Sodium ion/phosphate cotransporter; (Rat); (Rabbit); (Bovine) (Delisle, M.-C. (1190) 289)

NBTI-sensitive nucleoside transport; Nucleoside transport; Solubilization; Adenosine; Nitrobenzylthioinosine; Brush-border membrane (Ciruela, F. (1191) 94)

Phosphatidylcholine; Arachidonic acid content; Dietary oil; Clofibric acid; Prostaglandin formation; Liver; (Rat) (Kawashima, Y. (1210) 187)

CD63; Murine homolog; Gene expression; Activated macrophage (Miyamoto, H. (1217) 312)

Kidney cortex
Protein methylation; Small GTP-binding protein (Gingras, D. (1204) 149)

Kidney protein
Aldose reductase; Aldehyde reductase; Kinetics; Immunochemistry; Hyperosmotic stress; (Human); (Kidney) (Robinson, B. (1203) 260)

Kidney proximal tubule
Protein degradation; Labeling; Histochemistry (Evans, P.J. (1221) 243)

Kinase
Creatine kinase; Site-directed mutagenesis; Mutagenesis (Lin, L. (1206) 97)

Insulin receptor; Protein–protein interaction; Phosphorylation (Sacks, D.B. (1206) 120)

Calcium; Calmodulin; Sequence; Expression; (Rat heart) (Edman, C.F. (1221) 90)

Signal transduction; Olfactory neuron; Odorant receptor; Second messenger (Breer, H. (1224) 277)

Kinase activity
Curcumin; Epidermal growth factor receptor; A431 cell (Korutla, L. (1224) 597)

Kinase anchor protein
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Kinetic analysis
Human urokinase; Polyethylene glycol-polypropylene glycol; Plasminogen activator inhibitor 1; Peptide map (Kajihara, J.-i. (1199) 202)

Trypanothione reductase; Substrate analogue; Glutamyl binding site; Enzyme modification; (*C. fasciculata*); (*T. congolense*) (El-Waer, A.F. (1203) 93)

Methemoglobin; Horseradish peroxidase; Phenothiazine; Metabolism (Kelder, P.P. (1205) 230)

Octamethylhemin; Heme-globin contact; Heme-histidine orientation (Neya, S. (1208) 31)

Kinetic modeling
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Desaturation; Deuterium; Isotope; Linoleic acid; (Human) (Emken, E.A. (1213) 277)

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Lipoprotein containing apo A-II, LpA-II
LCAT; Lipoprotein containing apo A-I, LpA-I (Ikeda, Y. (1215) 307)

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Liver perfusion
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Lysolecithin hydrolysis
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Apolipoprotein B; Subcellular fractionation; LDL; Intracellular accumulation; Lysosome; Atherosclerosis; Foam cell (Mander, E.L. (1212) 80)

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Macrophage recognition
Sialosaccharide receptor; Macrophage lectin; Thiol oxidation; Glycophorin A; (Erythrocyte); (Mouse) (Beppu, M. (1223) 47)

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Manganese complex
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Photosystem II; Oxygen-evolving complex; XANES; EXAFS; Calcium (MacLachlan, D.J. (1186) 186)

Manganese enzyme
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MAP kinase kinase
Recombinant DNA; DNA; Polymerase chain reaction; (Carp); (*C. carpio*) (Huang, C.-J. (1220) 223)

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Maple syrup urine disease
Branched-chain α-keto-acid dehydrogenase complex; Complementation analysis; Cell fusion; PCR-single-strand conformation polymorphism (PCR-SSCP); Gene mutation (Nobukuni, Y. (1225) 64)

Branched-chain α-keto acid dehydrogenase; Alternative splicing; Exon skipping (Hayashida, Y. (1225) 317)

Marijuana
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Marine algae
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Marsupial
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Lipoxygenase; Polyunsaturated fatty acid; Cornea; Epithelium; (Human); (Bovine) (Liminga, M. (1210) 288)

Fatty acid-binding protein; Mammary epithelial cell; Immunoaffinity purification; Differentiation; Phosphorylation (Nielsen, S.U. (1211) 189)

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src kinase; Signal transduction; Tyrosine phosphorylation (Amrein, K.E. (1222) 441)

Mast cell growth factor
Kit ligand; Steel factor; Nucleotide sequence; Amino acid homology; cDNA cloning; (Cow) (Zhou, J.-H. (1223) 148)

Mastocytoma cell
Histidine decarboxylase; Baculovirus expression vector; Post-translational processing; (Mouse) (Yamamoto, J. (1216) 431)

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Mastoparan X
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Matrix-assisted laser desorption/ionization mass spectrometry (MALDI)
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Frameshift mutation; Myophosphorylase gene (Bartram, C. (1226) 341)

MCD
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MDR
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P-glycoprotein; Calcein; Fluorescent indicator; Flow cytometry; Fluorometry; Functional assay (Holló, Zs. (1191) 384)

***Mea* gene**
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CP/MAS; NMR, solid state ^{13}C-; 5,6-Dihydroxyindole-melanin; Autooxidation; Quantitative analysis (Hervé, M. (1204) 19)

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Melanogenesis
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Tyrosinase; Melanin; Biosynthesis; Enzyme kinetics; Reaction mechanism; Metabolic pathway (Ros, J.R. (1204) 33)

Dopachrome tautomerase; Cytotoxicity; Intermediate; (Mammal) (Salinas, C. (1204) 53)

Pigmentation; Melanin; Cytotoxicity (Urabe, K. (1221) 272)

Melanoma
Melanin; Thiouracil; Melanogenesis; Pigmentation (Palumbo, A. (1200) 271)

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Perfluoroalkylated phosphatidylcholine; Phospholipid; Liposome; Fluorinated liposome; Vesicle; Polymorphism (Santaella, C. (1190) 25)

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Perfluoroalkylated phosphatidylcholine; Phospholipid; Fluorinated liposome; Vesicle; Permeability (Frézard, F. (1192) 61)

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Organic anion; Permeation; Surface potential; Liposome (Sugawara, M. (1192) 241)

Erythrocyte; EPR; Glycerol permeability; Activation energy; (Human spermatozoon) (Du, J. (1194) 1)

Cholesterol; Estradiol; Steroid transport; Lipid bilayer (Jacobsohn, M.K. (1195) 131)

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Lipid transport; Eukaryotic cell; Cholesterol; Fatty acid; Phospholipid; Sphingolipid (Trotter, P.J. (1213) 241)

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Annexin V; Platelet; Thrombin; (Human) (Trotter, P.J. (1222) 135)

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Vascular smooth muscle; Adenylyl cyclase; Guanine nucleotide regulatory protein; Hypertension; (Milan rat) (Clark, C.J. (1225) 149)

Membrane admittance
Electrical capacitance; Myoblast; Myotube; Cultured muscle cell (Asami, K. (1190) 129)

Membrane association
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Membrane asymmetry
Bipolar lipid; Monolayer; Lipid membrane; Archaeobacterium (Gliozzi, A. (1189) 96)

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Membrane-bound copper
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Membrane-bound proteinase
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Membrane capacitance
Dielectrophoresis; Cell electrodynamics; Cell membrane; Induced electric dipole (Mahaworasilpa, T.L. (1193) 118)

Electrorotation; Dielectrophoresis; Cell dielectric property; Cell differentiation; Leukemia; Cell surface morphology (Wang, X.-B. (1193) 330)

Membrane channel
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Membrane dynamics
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Membrane enzyme
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Membrane fluidity
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Renal; Brush-border membrane vesicle; Ionic permeability; Fluorescence polarization (Medow, M.S. (1191) 219)

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Membrane fusion
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Protonophore resistance; Bacterial respiration; CCCP; Transposon mutagenesis; (*B. subtilis*) (Quirk, P.G. (1186) 27)

Membrane lipid composition
Iron deficiency; Cytochrome; Liver lipid; Oxidative metabolism; (Rat liver mitochondria) (Masini, A. (1188) 46)

Membrane morphology
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Membrane nomenclature
Transmembrane measurement; Bioenergetic membrane; Energy transduction; (Nomenclature proposal) (Silverstein, T.P. (1183) 1)

Membrane organization
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Membrane oxidation
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Membrane permeability
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Membrane perturbation
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Iron therapy; Liver lipid; Serum lipid; Phosphorylation potential; (Rat liver mitochondria) (Masini, A. (1188) 53)

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Membrane protein degradation
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Membrane structure
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Metabolic control analysis
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Metal responsive element
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Metastasis
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Methionine adenosyltransferase
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Methylation
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Adenine methyltransferase; Plant transformation; Methylase expression (Mitra, A. (1219) 244)

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***N*-Methylation**
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2′-*O*-Methylation
Large ribosomal subunit RNA; Secondary structure; ribosomal RNA; RNA structure; Methylation; (*X. laevis*) (Ajuh, P.M. (1219) 89)

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***O*⁶-Methylguanine-DNA methyltransferase**
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Methyltransferase
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Microtubule-associated protein
Microtubule; Protein purification; Tubulin; (Sea urchin) (Maekawa, S. (1207) 194)

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Hepatotoxicity; NAD/NADH ratio; Fibrosis; (Liver) (Hernández-Muñoz, R. (1200) 93)

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Mitochondrial respiration
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Mixed interdigitated packing motif
Phase transition temperature; Mixed-chain phosphatidylcholine; Structural parameter (Li, S. (1194) 271)

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Monovalent cation; Sodium ion pump; NADH-quinone reductase; Argentous inhibition; Silver; (Marine bacterium); (*V. alginolyticus*) (Unemoto, T. (1183) 201)

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Monocytic leukemic cell line
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Mononuclear leukocyte
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Monovalent cation
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Monte Carlo simulation
Pyrophosphate hydrolysis; Hydration; Nonadditive effect; Numerical simulation; Phosphoanhydride bond (Saint-Martin, H. (1207) 12)

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Apolipoprotein B; mRNA editing (Backus, J.W. (1219) 1)

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Mucopolysaccharidosis
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Murine tissue-specific expression
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Muscarinic acetylcholine m3 receptor
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Muscle relaxation
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Fast-twitch skeletal muscle; β-Guanidinopropionic acid; Mitochondron; ATP synthesis rate; Kinetic parameter (Freyssenet, D. (1186) 232)

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Thrombomodulin; Monoclonal antibody; Epitope (Nawa, K. (1205) 162)

Aminoacyl-tRNA synthetase; Mononucleotide binding fold; HIGH sequence; Kinetics; Overexpression (Chan, K.W. (1205) 223)

Creatine kinase; Kinase; Site-directed mutagenesis (Lin, L. (1206) 97)

Ferrochelatase; Heme biosynthesis; Histidine residue; Iron binding; (Human) (Kohno, H. (1209) 95)

Calcium binding; Protein kinase; Calmodulin; Molecular dynamics; Protein engineering (Lukas, T.J. (1223) 341)

Mutant
Cytochrome *bo*; Carbon monoxide; Flash photolysis; Transient kinetics; (*E. coli*) (Brown, S. (1183) 521)

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Erythropoietic protoporphyria; Ferrochelatase gene (Wang, X. (1225) 187)

Galactosialidosis; β-Galactosidase; Neuraminidase; Cathepsin A; Protective protein (Okamura-Oho, Y. (1225) 244)

Tyrosinemia; Fumarylacetoacetate hydrolase; Gene organization; Tyrosine (Awata, H. (1226) 168)

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Mycophenolic acid
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Mycoplasma
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Myelin basic kinase
Parathyroid hormone; Sodium/phosphate cotransport; cyclic AMP; Calcium ion, intracellular concentration; Protein kinase A; Protein kinase C; (Kidney cell); (Opossum) (Quamme, G. (1223) 107)

Myelin tube
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Myoblast
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Phosphate transport; Insulin; IGF-1; Skeletal muscle (Polgreen, K.E. (1223) 279)

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Myogenesis
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MyoD; Teleost; (Satellite cell) (Rescan, P.-Y. (1218) 202)

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Mini-myoglobin; EPR; Nitric oxide; Protein structure; (Horse heart) (De Sanctis, G. (1204) 28)

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Site-specific mutagenesis; EXAFS; Tyrosine-64; Heme iron ligand; (Horse heart) (Tang, H.-L. (1206) 90)

Amino acid sequence; Dimer; Amino terminal acetylated protein; (*Buccinum undatum* L.) (Wen, D. (1208) 263)

Magnesium; Ferrylmyoglobin; Cardiac ischemia; Ascorbic acid; Cytochrome oxidase aa_3; (Rat heart) (Wu, F. (1225) 158)

Hyperthermia; Tumor; NMR; Thermometry (Chung, Y. (1226) 31)

Myokinase
Sarcoplasmic reticulum; Glycogen phosphorylase; Phosphoglucomutase; Glycosidase; Creatine kinase (Cuenda, A. (1194) 35)

Myopathy
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Myophosphorylase gene
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Myosin dephosphorylation
Myosin light-chain phosphatase; Smooth muscle; Affinity chromatography; Protein purification; Protein characterization; (Turkey gizzard) (Nowak, G. (1203) 230)

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Myosin light-chain phosphatase
Myosin dephosphorylation; Smooth muscle; Affinity chromatography; Protein purification; Protein characterization; (Turkey gizzard) (Nowak, G. (1203) 230)

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Hemoglobin; Liposome; Blood surrogate; Freeze-drying; Radiolabel (Brandl, M. (1196) 65)

NADH dehydrogenase
Complex I; MPP^+; NADH-Q oxidoreductase; Q_{10}; Piericidin A; Rotenone; Ubiquinone (Singer, T.P. (1187) 198)

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Nuclear transport
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Nucleoporin
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3′-Nucleotidase
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Nucleotide pool
Inorganic phosphate uptake; Intracellular inorganic phosphate; Nucleotide catabolism; Purine riboside (Marcussen, M. (1194) 197)

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O

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Octadecyl Rhodamine B chloride
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Olfactory signal transduction
Chemoreception; Calmodulin; Cilia; Calcium; Olfactory reception (Lo, Y.H. (1192) 153)

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Opiomelanins
Melanin; Tyrosinase; Enkephalin; Enkmelanins; Opioid peptides (Rosei, M.A. (1199) 123)

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Ornithine carrier
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Ornithine decarboxylase antizyme
Ornithine decarboxylase; Polyamine (Tewari, D.S. (1209) 293)

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Osmoprotection
Betaine; Stachydrine; Choline; Methylamine; Osmolyte (Lever, M. (1200) 259)

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Oxidation
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ζ-crystallin; DT-diaphorase; Xenobiotic (Tumminia, S.J. (1203) 251)

LDL; Macrophage; NADPH oxidase; Lipoxygenase; Nitric oxide synthase; Atherosclerosis (Wilkins, G.M. (1211) 69)

LDL; Polymorphonuclear leucocyte; Macrophage scavenger receptor; Atherosclerosis (Katsura, M. (1213) 231)

LDL; Macrophage; Superoxide dismutase; Oxygen radical; Atherosclerosis (Wilkins, G.M. (1215) 250)

Lipoprotein; Antioxidant; Ceroid; P388D1 (Marchant, C.E. (1215) 267)

Hypochlorite; Lp(a); Lipoprotein; Atherosclerosis; (Mouse) (O'Connell, A.M. (1225) 180)

α-Oxidation
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Oxidation-reduction titration
Nitrite reductase; Ferredoxin; Cyclic voltammetry; Laser flash photolysis; Protein-protein complex; (Spinach) (Hirasawa, M. (1185) 336)

Oxidative burst
Surface antigen; Superoxide anion; Monoclonal antibody; Neutrophil (Michetti, M. (1194) 296)

β-Glucan; Macrophage; Tyrosine phosphorylation; Phospholipase A_2 (Goldman, R. (1222) 265)

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Thylakoid membrane; Photosystem II; Light stress; Active oxygen; Free radical (Hideg, É. (1186) 143)

Band 3; Erythrocyte; Erythrocyte removal; Phagocytosis; Diamide (Turrini, F. (1190) 297)

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DNA repair, subcellular; Supercoiled DNA; Ultraviolet damage (Collins, A.R. (1219) 724)

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Iron deficiency; Cytochrome; Membrane lipid composition; Liver lipid; (Rat liver mitochondria) (Masini, A. (1188) 46)

Polyunsaturated fatty acid; Stunned myocardium; Mitochondrial function (Demaison, L. (1227) 53)

Oxidative modification
LDL peroxidation; 1 Acyl-2 acetyl-*sn*-glycero-3 phosphocholine; Phosphocholine; Atherosclerosis (Maziere, C. (1210) 233)

LDL oxidation; Free radical; Apolipoprotein B (Noguchi, N. (1213) 176)

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Fatty acid; Energy coupling; Uncoupling; Decoupling; Adenine nucleotide translocase; Cation transport; Thermogenesis (Wojtczak, L. (1183) 41)

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Hexokinase; Mitochondrion; Outer membrane; Channeling; (Rat liver) (Laterveer, F.D. (1188) 251)

Mitochondrion; Liver regeneration; (Rabbit liver) (Inomoto, T. (1188) 311)

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Mitochondrion; Proton leak; Metabolic control (Rolfe, D.F.S. (1188) 405)

Lovastatin; Coenzyme Q_{10}; Mitochondrion; Leukocyte; Respiratory burst (Diebold, B.A. (1200) 100)

Peroxisomal β-oxidation; Peroxisome; Mitochondrion; Fibroblast; (Human skin) (Jakobs, B.S. (1211) 37)

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Copper thionein; Oxygen radical; Reduced oxygen species; Pulse radiolysis; Radical scavenging (Felix, K. (1203) 104)

Soybean lipoxygenase; Superoxide anion; NAD(P)H (Roy, P. (1214) 171)

Heme oxygenase; Cobalt chloride; Sn-protoporphyrin IX; Bilirubin; Liver; (Rat) (Llesuy, S.F. (1223) 9)

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PAF-acetylhydrolase; LDL; LDL subfraction; Lipid peroxidation (Karabina, S.-A.P. (1213) 34)

Oxidized β-VLDL; Hypercholesterolemia; Macrophage; Atherosclerosis (Nenseter, M.S. (1213) 207)

Macrophage; Aggregation; Fluorescent product; Schiff base (Maeba, R. (1215) 79)

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Oxidoreductase
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Cytochrome *P*-450scc; Monooxygenase; Steroid hydroxylase; Cytochrome *P*-450; Side-chain cleavage enzyme of cholesterol (Miyatake, A. (1215) 176)

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Oxoglutarate carrier
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2-Oxothiazolidine-4-carboxylic acid
Racemase; 5-Oxoproline (Mochizuki, K. (1200) 27)

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Oxygen diffusion
Neuroblastoma; Respiration; Electron paramagnetic resonance; Oximetry; Polymer (Smirnov, A.I. (1200) 205)

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Heat-inactivation; Immobilization; Extrinsic protein; Thermal stabilization (Enami, I. (1186) 52)

Photosystem II; Calcium; Water splitting (Seidler, A. (1187) 73)

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Oxygen-evolving center
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Oxygen-evolving complex
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Oxygen partial pressure
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Oxygen radical
ATPase, Na^+/K^+-; Isoform; Hydrogen peroxide; Ouabain; Oxidant (Huang, W.-h. (1190) 108)

Superoxide dismutase; Catalase; DT-diaphorase; Norepinephrine; Quinone (Linderson, Y. (1200) 197)

Hsp70 gene; Cadmium; Glutathione; (Human) (Abe, T. (1201) 29)

NADH oxidation; Vanadyl oxidation; Diperoxovanadate (Ravishankar, H.N. (1201) 289)

Copper thionein; Reduced oxygen species; Pulse radiolysis; Radical scavenging; Oxidative stress (Felix, K. (1203) 104)

LDL; Oxidation; Macrophage; Superoxide dismutase; Atherosclerosis (Wilkins, G.M. (1215) 250)

Differentiation; PAF; (Leukemia cell); (Rat) (Nishihira, J. (1220) 286)

Oxygen regulated protein (ORP)
Microvascular; Endothelium; Hypoxia; Gene expression (Mansbridge, J. (1223) 209)

Oxygen stabilization
Immobilization; Crosslinking; Oxygen evolution; Extrinsic protein (Enami, I. (1185) 75)

Oxygen tension
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Oxygen uptake
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Oxygen yield oscillation
Light saturation; S state; (*P. tricornutum*); (*S. leopoliensis*); (*C. vulgaris*) (Mauzerall, D. (1183) 123)

Oxygenase
FAD-containing monooxygenase; Flavoenzyme; Kinetics; Neurotoxin (Wu, R.-F. (1208) 204)

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Icosanoid; Marine algae; Biosynthesis; Structure elucidation (Gerwick, W.H. (1211) 243)

Oxysterol
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Oxysterol-binding protein
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p53
Immortalization; Mouse fibroblast; Thermal analysis; Mortalin; p81 (Kaul, S.C. (1201) 389)

p81
Immortalization; Mouse fibroblast; Thermal analysis; Mortalin; p53 (Kaul, S.C. (1201) 389)

***P*-450$_{VD25}$**
Vitamin D-3 25-hydroxylase; Nucleotide sequence; (*A. autotrophica*) (Kawauchi, H. (1219) 179)

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PAF-acetylhydrolase; LDL; Oxidized LDL; Plasma; (Human) (Liapikos, T.A. (1212) 353)

NF-κB; Small intestine; Competitive PCR (Tan, X. (1215) 157)

Differentiation; Oxygen radical; (Leukemia cell); (Rat) (Nishihira, J. (1220) 286)

Prostaglandin E_2; Autocrine; Inositol 1,4,5-trisphosphate; cyclic AMP; Macrophage (Asmis, R. (1224) 295)

Calcium mobilization; Phosphoinositide metabolism; Cerebral microvascular endothelial cell; Triazolodiazepine (WEB 2086); (Calf) (Lin, A.-Y. (1224) 323)

PAF-acetylhydrolase
PAF; LDL; Oxidized LDL; Plasma; (Human) (Liapikos, T.A. (1212) 353)

LDL; LDL subfraction; Oxidized LDL; Lipid peroxidation (Karabina, S.-A.P. (1213) 34)

PAI-1
Serine proteinase inhibitor; Fluorescence spectroscopy; Circular dichroism; Ultraviolet spectroscopy; Protein conformation (Vaughan, D.E. (1202) 221)

Palmitate
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Palmitic acid
Oleic acid; Dietary cholesterol; Fatty acid; LDL; HDL; Kinetics; (Cebus monkey) (Khosla, P. (1210) 13)

Phospholipid molecular species; Phosphatidylcholine; Phosphatidylethanolamine; Polyunsaturated fatty acid; Stearic acid; Hepatocyte; (Rat) (Woldseth, B. (1213) 39)

Palmitoylation
Chloride transport; Site-directed mutagenesis; Oocyte; (*Xenopus*) (Kang, D. (1194) 341)

Protein acylation; Myristoylation, *N*-; Lymphocyte (Nadler, M.J.S. (1213) 100)

1-Palmitoyl-2-oleoyl-phosphatidylethanolamine
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Palytoxin
ATPase, Na^+/K^+-; Potassium ion efflux; Red blood cell (Tosteson, M.T. (1191) 371)

Pancreas
Lipase; Regulation; Gene expression (Huang, Y. (1214) 317)

Serine proteinase; cDNA; Kininogenase; Kallikrein; (*Canis familiaris*) (Gauthier, E.R. (1218) 102)

Ribonuclease; Pancreatic RNAase; cDNA cloning; RNAase; (Human) (Seno, M. (1218) 466)

Pancreatic islet
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G protein; Insulin secretion; Lipid messenger; Secretory granule; GTPase (Kowluru, A. (1222) 360)

Pancreatic islet cell
L-Glutamate transporter; cDNA; Brain; Sequence; (Human) (Manfras, B.J. (1195) 185)

Pancreatic lipase
Phosphonate; Lipase; Gastric lipase; Enzyme inactivation; (Human) (Marguet, F. (1210) 157)

Lipoprotein lipase; Entropy; Active site structure; Substrate specificity; Enzyme kinetics (Wang, C.-S. (1212) 67)

Interfacial activation; Amino terminal; Peptide sequence (Mejdoub, H. (1213) 119)

Pancreatic phospholipase A_2
Competitive inhibition; 2-Acylamino phospholipid; Lipolysis (Dijkman, R. (1212) 50)

Pancreatic RNAase
Ribonuclease; Pancreas; cDNA cloning; RNAase; (Human) (Seno, M. (1218) 466)

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PAP III; Gene family; mRNA cloning; Gene sequencing; (Rat) (Frigerio, J.-M. (1216) 329)

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Agmatine; Irreversible proteinase inhibitor; Complex; X-ray analysis; Substrate specificity (Matsumoto, K. (1208) 268)

Papaverine
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PAP III
Gene family; mRNA cloning; Gene sequencing; Pancreatitis; (Rat) (Frigerio, J.-M. (1216) 329)

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Glycosphingolipid; Ganglioside; Structure; (*Echinococcus multilocularis*); (Cestode) (Persat, F. (1225) 297)

Parasitized larvae
NMR, ^{13}C-; Glucose metabolism; (Insect); (*M. sexta*) (Thompson, S.N. (1200) 322)

Parathion
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Parathyroid hormone
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PTH receptor desensitization; Perifusion culture; (Osteosarcoma cell, SaOS-2); (Human) (Bergwitz, C. (1222) 447)

Parathyroid hormone-related protein; cyclic AMP; Inositol phosphate; Pulmonary surfactant; Lung development; (Rat) (Rubin, L.P. (1223) 91)

Sodium/phosphate cotransport; cyclic AMP; Calcium ion, intracellular concentration; Protein kinase A; Protein kinase C; Myelin basic kinase; (Kidney cell); (Opossum) (Quamme, G. (1223) 107)

Hydrophobic moment; Translocation (Ahn, K. (1224) 459)

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Parathyroid hormone-related protein
Parathyroid hormone; NMR, ^{1}H-; Hypercalcemia; Protein structure; (Human) (Barden, J.A. (1208) 256)

cyclic AMP; Second messenger pathway; Protein kinase C; (Human lung) (Emly, J.F. (1220) 193)

Parathyroid hormone; cyclic AMP; Inositol phosphate; Pulmonary surfactant; Lung development; (Rat) (Rubin, L.P. (1223) 91)

Parenteral fat emulsion
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Parenteral nutrition
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Parietal cell
Gastric mucosa; Mucosa; Gastric ulcer; In situ hybridization; ATPase, H^+/K^+- (Bamberg, K. (1190) 355)

Parotid gland
β-Adrenergic receptor; Sialic acid; DNA synthesis; Plasma membrane; (Mouse) (González Burgos, M.J. (1222) 208)

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β-Adrenergic receptor; Guanine nucleotide-binding regulatory protein; Adenylate cyclase; Tryptic digestion; (Rat hepatocyte) (Yagami, T. (1222) 81)

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Alkaline-induced ion-selective activity; Single-channel activity; Mitochondrial channel; Mitochondrial inner membrane; Permeability; (Mitoplast) (Antonenko, Yu.N. (1194) 247)

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Allergy; *Bet v* I; Microbial pathogen; Pollen; (*Betula*) (Swoboda, I. (1219) 457)

PC12 cell
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PCR
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Glucose-6-phosphate dehydrogenase; Promoter; (Rat) (Rank, K.B. (1217) 90)

Actin gene; Nervous system; cDNA; (*A. californica*) (DesGroseillers, L. (1217) 322)

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Triplet repeat expansion; Dynamic mutation; PCR instability; TATA-binding protein (Holstege, F.C.P. (1219) 157)

IP_3 3-kinase; cDNA; Nucleotide sequence; (Rat) (Thomas, S. (1220) 219)

G protein β subunit; Central nervous system; cDNA cloning; In situ hybridization; (*Lymnaea stagnalis*) (Knol, J.C. (1222) 129)

CSF, M-; mRNA; Alternative splicing; RT-PCR; Interferon γ; (Human) (Ohtsuki, T. (1222) 141)

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PCR instability
Triplet repeat expansion; Dynamic mutation; PCR; TATA-binding protein (Holstege, F.C.P. (1219) 157)

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DNA; Kinetics (Morrison, C. (1219) 493)

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P36SD1
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PDGF
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Ito cell; PGE; Raf; Mitogenesis; Proto-oncogene expression (Beno, D.W.A. (1222) 292)

PDGF-A
5′-UTR; Gene regulation; Post-transcription (Takimoto, Y. (1222) 511)

PDMP
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Penicillin-binding protein
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Penicillolysin
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Pentacoordination
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Pentamidine
Lipopolysaccharide; Lipid A; Fluorescence; NMR; Phenothiazine; Aminoquinoline; Biguanide; Endotoxin-antagonism (David, S.A. (1212) 167)

Pentobarbital
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Pentose phosphate cycle
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Phosphopeptide; Protein phosphatase; Protein tyrosine phosphatase; Protein phosphorylation; Protein kinase (Pinna, L.A. (1222) 415)

Peptide assignment
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Peptide folding
Histone H1; Oligonucleotide; Ellipticity; (Human); (Calf thymus) (Böhm, L. (1202) 230)

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Peptide hormone
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Phenylethanolamine-*N*-methyl transferase
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Phosphatidylinositol 4,5-bisphosphate
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Phospholipase A_2, type II
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Phosphotransferase
Enzyme II; Carbohydrate transport; Phospho*enol*pyruvate; Primary transport system; (Bacteria) (Lengeler, J.W. (1188) 1)

Phospoholipase A_2
Monoamine biosynthesis; Protein kinase C regulation; Signal transduction; mRNA untranslated region (Swanson, K.D. (1216) 145)

Photoacoustic spectroscopy
Quantum efficiency; Excitation transfer; State transition (Delosme, R. (1185) 56)

Photoaffinity labeling
Sulfonylurea receptor; Insulin secretion; Glimepiride; Glibenclamide; ATP-regulated K^+-channel; Potassium ion channel; Beta cell (Kramer, W. (1191) 278)

Nucleotide sugar transport; UDP-glucuronosyltransferase (Radominska, A. (1195) 63)

UDP-glucuronosyltransferase; Inhibitor; Bile acid; Glucuronidation; (Rat liver) (Radominska, A. (1205) 336)

Bile acid transport; HMG-CoA reductase inhibitor; Liver specificity; Drug delivery; Drug targeting (Kramer, W. (1227) 137)

Photochemical apparatus
Cyanobacterium; Photosynthesis; Photosystem II inhibition; Pyridazinone; Energy distribution (Srivastava, M. (1186) 1)

Photochemical modification
Myosin-ATP; Tryptophan; Trichloroethanol (Papp, S.J. (1202) 169)

Photocycle
Bacteriorhodopsin; Retinal protein; Retinal isomerization; Proton pump; Proton translocation; (Halobacteria) (Lanyi, J.K. (1183) 241)

Bacteriorhodopsin; Protein motion; Photothermal; Beam deflection; (*H. halobium*) (Schulenberg, P.J. (1185) 92)

Bacteriorhodopsin; Retinal; Schiff base (Tittor, J. (1187) 191)

Photodynamic therapy
Photosensitization; Singlet oxygen; Plasma membrane; Membrane potential; Glucose transport; Proline transport; 5′-Nucleotidase (Kochevar, I.E. (1196) 172)

Intracellular Ca^{2+} concentration; TiO_2; T24 cell; UV light; Fura-2 (Sakai, H. (1201) 259)

Hematoporphyrin derivative; Reproductive cell death (Penning, L.C. (1221) 250)

Photoinhibition
pH gradient; Light stress; Photophosphorylation; Proton uptake; Uncoupling; (Chloroplast) (Tjus, S.E. (1183) 315)

Photosystem II; Radical pair state; Time-resolved fluorescence; Quinone redox state (Vass, I. (1183) 388)

UVB; Photosystem II; D1-protein; Thylakoid (Friso, G. (1184) 78)

Photosystem II complex; Pigment photobleaching; Protein degradation; Singlet oxygen (Mishra, N.P. (1186) 81)

D1 protein degradation; Photosystem II complex; Singlet oxygen (Mishra, N.P. (1187) 296)

Photosystem II; Cytochrome *b*-559 complex; D1/D2-cytochrome complex; Triplet state; Absorption detected magnetic resonance (Angerhofer, A. (1188) 35)

Chloramphenicol; Clp proteinase; Photosynthesis; Pulse-chase; Rifampicin; (*L. gibba*) (Gong, H. (1188) 422)

Photoisomerization
Merocyanine 540; Phosphatidylcholine; Cholesterol; Vesicle; Microviscosity (Onganer, Y. (1192) 27)

Photolabeling
Acetylcholine receptor; Local anesthetic; Noncompetitive blocker; Desensitization (Moore, M.A. (1190) 457)

Photolysis
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Photooxidation
Collagen; Rat tail tendon; Methylene blue; Photosensitizer; Cross-linking (Ramshaw, J.A.M. (1206) 225)

Multicopper enzymes; Electron transfer kinetics (Hazzard, J.T. (1208) 166)

Microsome; Lipid peroxidation; Protoporphyrin; Bilirubin; Porphyrias (Williams, M. (1211) 310)

Photophosphorylation
pH gradient; Light stress; Photoinhibition; Proton uptake; Uncoupling; (Chloroplast) (Tjus, S.E. (1183) 315)

ATPase; F_1; Over-expression; Reconstitution; Subunit; (*Synechocystis* sp. PCC 6803) (Steinemann, D. (1187) 354)

Photophysics
Heavy atom effect; Liposomes; Photosensitization; Singlet oxygen; Cyanine dyes (Krieg, M. (1999) 149)

Photoreceptor
Sodium–calcium ion exchange; Rod outer segment; Protein association; Vesicle sidedness; (Bovine) (Huppertz, B. (1189) 119)

Photosensitization
Aggregation; Porphyrin; Chlorin; Pheophytin *a* epimer; NMR, ^{1}H- (Hynninen, P.H. (1183) 374)

Liposome; Mitochondrial membrane; Lipid phase transition; Zinc phthalocyanine (Ricchelli, F. (1196) 165)

Singlet oxygen; Plasma membrane; Photodynamic therapy; Membrane potential; Glucose transport; Proline transport; 5′-Nucleotidase (Kochevar, I.E. (1196) 172)

Hematoporphyrin; Singlet oxygen; Triplet state; Vicinal water (Van-Steveninck, J. (1201) 23)

Heavy atom effect; Liposomes; Photophysics; Singlet oxygen; Cyanine dyes (Krieg, M. (1999) 149)

Photosensitizer
Collagen; Rat tail tendon; Methylene blue; Photo-oxidation; Cross-linking (Ramshaw, J.A.M. (1206) 225)

Guanine damage; Singlet oxygen; 8-Oxo-7,8-dihydro-2′-deoxyguanosine; DNA (Kvam, E. (1217) 9)

Antisense oligonucleotide; Cell-free translation; α-Oligonucleotide; Hairpin structure (Pascolo, E. (1219) 98)

Photosynthesis
Reaction center; Electron transfer; FTIR; Spectroelectrochemistry (Bauscher, M. (1183) 59)

Bacterial reaction center; Energy transfer; Picosecond spectroscopy; (*R. rubrum*) (Timpmann, K. (1183) 185)

Light-harvesting complex; B875; Purple bacterium; Carotenoid; (*Rc. gelatinosus*) (Jirsakova, V. (1183) 301)

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Chlorophyll; Micelle; Aggregation; Self-organization; Detergent action (Gottstein, J. (1183) 413)

Chloroplast; Plastoquinone; Diffusion; Percolation theory (Blackwell, M. (1183) 533)

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Light-harvesting complex; Protein phosphorylation; Protein kinase; (*R. rubrum*) (Ghosh, R. (1184) 37)

Tyrosine Z; Photovoltage; Photosystem II (Pokorny, A. (1184) 65)

Light-harvesting; Energy transfer; Phycobilisome; Photosystem I; Cyanobacterium; (*Synechocystis* 6803) (Mullineaux, C.W. (1184) 71)

Photosystem II; Thermoluminescence; EPR; Calcium depletion (Johnson, G.N. (1184) 85)

Light-harvesting complex; Bacterium; Electron microscopy; (*Rhodospirillum molischianum*) (Boonstra, A.F. (1184) 227)

Photosystem II; Cyanobacterium; Non-heme iron; Reaction center; Quinone; Iron (Vermaas, W. (1184) 263)

Photosystem II; Energy quenching; Laser; Optoacoustic spectroscopy; Laser-induced optoacoustic spectroscopy (Mullineaux, C.W. (1185) 119)

EPR; Electron spin polarization; Radical pair mechanism; Spin-lattice relaxation (Van den Brink, J.S. (1185) 177)

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B820 subunit; Light-harvesting complex; Reaction center; Bacteriochlorophyll; Exciton interaction (Kerfeld, C.A. (1185) 193)

Photosystem II; Thermoluminescence; Oxygen evolution; Mutagenesis (Kramer, D.M. (1185) 228)

Electron transfer; Photosystem II; Chlorophyll *a* fluorescence; Site-directed mutagenesis (Roffey, R.A. (1185) 257)

Antenna; Bacteriochlorophyll-protein complex; Energy transfer; Fluorescence polarization; Site-directed mutagenesis; (*R. capsulatus*) (Olivera, L.M. (1185) 318)

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Energy transfer; Excitation energy transfer; Light harvesting; Carotenoid; Ultrafast laser spectroscopy; Polarized light spectroscopy; (Bacteria) (Van Grondelle, R. (1187) 1)

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Respiration; Cyanobacterium; Photosystem II; Photosystem I (Vermaas, W.F.J. (1187) 181)

Chlorophyll; Chromatography; FPLC; Pheophytin; Reaction center; Pigment stoichiometry (Aured, M. (1187) 187)

Decay-associated spectrum; Flavin nucleotide; Plant phenolic; Pyridine nucleotide (Cerovic, Z.G. (1188) 58)

Chlorophyll; Energy transfer; Pigment system; Picosecond spectroscopy; (*Bryopsis maxima*) (Nakayama, K. (1188) 117)

Oxygen evolution; Peroxide; Mass spectrometry; Flash pattern; Cyanobacterium (Bader, K.P. (1188) 213)

Xanthophyll cycle; Excitation quenching; Zeaxanthin; Violaxanthin; Fluorescence quenching; LHC II (Gruszecki, W.I. (1188) 235)

Higher plant; Oxygen uptake; Chlororespiration; Respiration (Gruszecki, W.I. (1188) 335)

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Allophycocyanin; Excitation energy transfer; Femtosecond spectroscopy; Anisotropy (Sharkov, A.V. (1188) 349)

Chloramphenicol; Clp proteinase; Photoinhibition; Pulse-chase; Rifampicin; (*L. gibba*) (Gong, H. (1188) 422)

Cyanobacterium; Cytochrome b_6f complex; Evolution; Nucleotide sequence; *petB* (Kruip, J. (1188) 443)

Plastocyanin; Copper protein; *petE*; Prochlorophyte; Transit peptide; (*Prochlorothrix*) (Arudchandran, A. (1188) 447)

Carotenoid pigment; EPR; Lecithin; Model membrane; Spin label (Strzałka, K. (1194) 138)

Fluorescence spectroscopy; Isoelectric point; Plastocyanin; Primary structure; Dimorphism; (Tobacco) (Dimitrov, M.I. (1203) 184)

Photosynthetic induction
Adenylate; 3-Phosphoglycerate; Triose phosphate; Cell fractionation; Chloroplast; (Barley leaf) (Gardeström, P. (1183) 327)

Photosynthetic membrane
Chloroplast ultrastructure; Membrane structure; Polyunsaturated lipid; Mutation; Fatty acid desaturation; (*Arabidopsis*) (Tsvetkova, N.M. (1192) 263)

Photosynthetic reaction center
Single crystal; EPR; ENDOR; Primary electron donor; Spin density distribution; Molecular orbital theory; (*Rb. sphaeroides*) (Lendzian, F. (1183) 139)

Photosystem
Fluorescence detected magnetic resonance; FDMR; Chlorophyll; Triplet; P680 (Carbonera, D. (1185) 167)

Photosystem I
Cyclic electron transport; Electron transport; Cyclic photophosphorylation; Ferredoxin-plastoquinone reductase; Cyanobacterial photosynthesis; (*P. laminosum*) (Manasse, R.S. (1183) 361)

Photosynthesis; Light-harvesting; Energy transfer; Phycobilisome; Cyanobacterium; (*Synechocystis* 6803) (Mullineaux, C.W. (1184) 71)

Chloroplast; Thylakoid; Aqueous two-phase system; Photosystem II; Cytochrome *f*; LHC II kinase (Wollenberger, L. (1184) 93)

Cytochrome c_6; Flash absorption spectroscopy; Plastocyanin; (*Synechocystis*) (Hervás, M. (1184) 235)

Reaction center protein; *psaA*; *psaB*; Cyanobacterium, filamentous; (*Anabaena variabilis* ATCC 29413) (Nyhus, K.J. (1185) 247)

Crystal; X-ray structure; Photosynthesis; Plastocyanin; Ferredoxin (Fromme, P. (1187) 99)

Photosynthesis; Respiration; Cyanobacterium; Photosystem II (Vermaas, W.F.J. (1187) 181)

Photosystem II; State 1-state 2 transitions; LHCII kinase; Response spectrum; Protein transport; Thylakoid membranes (McCormac, D.J. (1187) 301)

Time-resolved fluorescence; Kinetic modeling; Energy transfer; Global analysis; Detergent effect (Turconi, S. (1187) 324)

Spectroscopy; Polarized fluorescence; Site selection; (*Synechocystis*) (Gobets, B. (1188) 75)

Rhodophyte; Photosystem II; Light harvesting complex I; (*Porphyridium*) (Wolfe, G.R. (1188) 357)

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Oxygen evolution; Proton release; Absorption transient at 320 nm; Ultraviolet; pH dependence (Lübbers, K. (1183) 210)

Bicarbonate effect; Chlorophyll *a* fluorescence; Formate effect; Non-heme iron; Q_{400} (Stemler, A. (1183) 269)

Chlorophyll *a* fluorescence; Energy transfer; Matrix analysis; Oxygen evolution; Sequential double-hit model (Jursinic, P.A. (1183) 281)

Photosynthesis; Thylakoid; Chlorophyll fluorescence; pH gradient; (Spinach) (Noctor, G. (1183) 339)

Reaction center closure; Fluorescence decay; Excitation energy transfer; (Cyanobacterium) (Mullineaux, C.W. (1183) 345)

Radical pair state; Time-resolved fluorescence; Photoinhibition; Quinone redox state (Vass, I. (1183) 388)

Protein, 33 kDa; Oxygen evolution; Etioplast; Chloroplast; (Barley) (Hashimoto, A. (1183) 397)

Reaction center; Light-harvesting antenna; Charge separation; Charge recombination; Energy and electron transfer; Fluorescence kinetics (Freiberg, A. (1184) 45)

Photosynthesis; Tyrosine Z; Photovoltage (Pokorny, A. (1184) 65)

UVB; Photoinhibition; D1-protein; Thylakoid (Friso, G. (1184) 78)

Photosynthesis; Thermoluminescence; EPR; Calcium depletion (Johnson, G.N. (1184) 85)

Chloroplast; Thylakoid; Aqueous two-phase system; Photosystem I; Cytochrome *f*; LHC II kinase (Wollenberger, L. (1184) 93)

Cyanobacterium; Cytochrome; Iron; Mössbauer spectroscopy; (*P. laminosum*) (Picorel, R. (1184) 171)

Oxygen evolving complex; Tyrosine Z; Proton release; Electrochromism (Rappaport, F. (1184) 178)

Picosecond transient absorption; Energy transfer; Charge separation; Reaction center; Pigment arrangement (Schelvis, J.P.M. (1184) 242)

Photosynthesis; Cyanobacterium; Non-heme iron; Reaction center; Quinone; Iron (Vermaas, W. (1184) 263)

Oxygen evolution; Water-oxidizing complex; Tyrosine-D; Chloride ion depletion; Manganese cluster (Deák, Z. (1185) 65)

Electron transfer; Fluorescence; Reaction center; Sugar beet; Time-resolved (Montoya, G. (1185) 85)

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Chloride; Thylakoid; Oxygen evolution; Fluorescence induction (Sinclair, J. (1185) 112)

Photosynthesis; Energy quenching; Laser; Optoacoustic spectroscopy; Laser-induced optoacoustic spectroscopy (Mullineaux, C.W. (1185) 119)

Tyrosine D^+; Tyrosine Z^+; Tris-Photosystem II; EPR; ENDOR; Motional broadening (Mino, H. (1185) 213)

Photosynthesis; Thermoluminescence; Oxygen evolution; Mutagenesis (Kramer, D.M. (1185) 228)

Electron transfer; Photosynthesis; Chlorophyll *a* fluorescence; Site-directed mutagenesis (Roffey, R.A. (1185) 257)

Tyrosine D^+; EPR, pulsed; Hole burning; Oxygen-evolving center; Quinone iron (Kodera, Y. (1186) 91)

Chlorophyll fluorescence; Light harvesting complex; Dibucaine; Xanthophyll (Ruban, A.V. (1186) 123)

Thylakoid membrane; Light stress; Oxidative damage; Active oxygen; Free radical (Hideg, É. (1186) 143)

Oxygen-evolving complex; Manganese complex; XANES; EXAFS; Calcium (MacLachlan, D.J. (1186) 186)

Charge separation; Charge recombination; Reaction center; (*C. reinhardtii, P. sativum*) (Giorgi, L.B. (1186) 247)

Calcium; Oxygen evolution; Water splitting (Seidler, A. (1187) 73)

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Photosynthesis; Respiration; Cyanobacterium; Photosystem I (Vermaas, W.F.J. (1187) 181)

Photosystem I; State 1-state 2 transitions; LHCII kinase; Response spectrum; Protein transport; Thylakoid membranes (McCormac, D.J. (1187) 301)

Phosphorylation; LHC II; Intact chloroplast; Protein kinase; Protein phosphatase (Ebbert, V. (1187) 335)

Cytochrome *b*-559 complex; D1/D2-cytochrome complex; Triplet state; Absorption detected magnetic resonance; Photoinhibition (Angerhofer, A. (1188) 35)

Excitation energy transfer; Light harvesting complex; Polarized spectroscopy (Van Amerongen, H. (1188) 227)

Iron-quinone complex; EPR; Carboxylate anion (Deligiannakis, Y. (1188) 260)

Iron-quinone complex; EPR; Carboxylate anion (Petrouleas, V. (1188) 271)

ENDOR; Tyrosine radical; Oxygen evolving complex (Rigby, S.E.J. (1188) 318)

Rhodophyte; Photosystem I; Light harvesting complex I; (*Porphyridium*) (Wolfe, G.R. (1188) 357)

Circular dichroism; Protein structure; Secondary structure; Oxygen evolving complex (Xu, Q. (1188) 427)

Cytochrome; *psbE*; *psbF*; *trnM*; Green alga; Chloroplast genome; (*Chlamydomonas reinhardtii*) (Alizadeh, S. (1188) 439)

DNA sequence; Chloroplast; *psb*D; *psb*C; Transcription; (*E. gracilis*) (Orsat, B. (1218) 75)

Photosystem II antenna
Chlorophyll-protein complex; Energy transfer; Excited state distribution; Fluorescence emission spectrum (Jennings, R.C. (1183) 194)

Photosystem II complex
Photoinhibition; Pigment photobleaching; Protein degradation; Singlet oxygen (Mishra, N.P. (1186) 81)

D1 protein degradation; Photoinhibition; Singlet oxygen (Mishra, N.P. (1187) 296)

Photosystem II inhibition
Cyanobacterium; Photosynthesis; Photochemical apparatus; Pyridazinone; Energy distribution (Srivastava, M. (1186) 1)

Photosystem II regulation
Localized proton; Light-harvesting complex phosphorylation; Excitation energy; Energy transfer; Reaction center (Ehrenheim, A.M. (1185) 279)

Photothermal
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Photovoltage
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***o*-Phthalaldehyde**
Creatine kinase; Inactivation; Isoindole derivative; (Rabbit muscle) (Sheikh, S. (1203) 276)

Phthiocerol
Thin-layer chromatography; Mass spectrometry; (*Mycobacterium*) (Hartmann, S. (1201) 129)

Phycobilisome
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C-Phycocyanin
Phycocyanin; Biliprotein; Phycoerythrin 545; Ferric ion; Circular dichroism (MacColl, R. (1188) 398)

Phycoerythrin 545
C-Phycocyanin; Phycocyanin; Biliprotein; Ferric ion; Circular dichroism (MacColl, R. (1188) 398)

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Phytanic acid
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Phytoene synthase
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Picosecond spectroscopy
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Picosecond transient absorption
Energy transfer; Singlet-triplet quenching; Reaction center; Anisotropy; (*H. chlorum*) (Van Noort, P.I. (1184) 21)

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Pigment arrangement
Picosecond transient absorption; Energy transfer; Charge separation; Reaction center; Photosystem II (Schelvis, J.P.M. (1184) 242)

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Nuclease; Enzyme isoform; Primary structure; (*S. marcescens*); (*E. coli*) (Pedersen, J. (1202) 13)

Plasmalemma
Affinity chromatography; Sucrose transport; Plasma membrane; Reconstitution; (Plant); (Sugar beet) (Li, Z.-S. (1219) 389)

Plasma lipoprotein
Acclimatization; HDL; Phospholipid unsaturation; Temperature adaptation; (*O. mykiss*) (Wallaert, C. (1210) 23)

Plasma lipoprotein composition
Nagase analbuminemic rat; Hypertriglyceridemia; Hypercholesterolemia; Triacylglycerol synthesis; VLDL; Albumin; Dextran (Catanozzi, S. (1212) 103)

Plasma membrane
Transplasma membrane redox; Cellular activation; Diaphorase; Neuroblastoma cell line (Zurbriggen, R. (1183) 513)

Cholesterol; Sterol carrier protein-2; Fatty acid binding protein; Fluorescence; Hypolipidemic drug (Woodford, J.K. (1189) 52)

Ethanol tolerance; Trehalose; Liposome; Phase transition; (*S. cerevisiae*) (Mansure, J.J.C. (1191) 309)

Trehalose; Phase transition; Dehydration; (*S. cerevisiae*) (Leslie, S.B. (1192) 7)

Phospholipid asymmetry; Vesicle; (BHK cell) (Whatmore, J.L. (1192) 88)

Phospholipid transfer; Very-long-chain fatty acid; Lipid accumulation (Moreau, P. (1194) 239)

Beticolin; Liposome; Fluorescence; Magnesium complex (Mikes, V. (1195) 124)

NADH oxidase; Copper reduction; Copper transport; (Rat hepatocyte) (Van den Berg, G.J. (1195) 276)

ATPase, H^+-; Detergent activation; (Tobacco calli) (Ibarz, E. (1196) 93)

Photosensitization; Singlet oxygen; Photodynamic therapy; Membrane potential; Glucose transport; Proline transport; 5′-Nucleotidase (Kochevar, I.E. (1196) 172)

ATPase; Pyrophosphatase (PPase); Archaebacterium; (*M. thermoautotrophicum*) (Roth, R. (1201) 271)

3′-Nucleotidase; Filtrable enzyme; Nucleoside supply; (*L. donovani*) (Gbenle, G.O. (1203) 162)

Spermatozoon; Epididymis; Maturation; Phospholipid asymmetry; (Goat) (Rana, A.P.S. (1210) 1)

Linolenic acid; Lipoxygenase; (*Glycine max*) (Macrì, F. (1215) 109)

Affinity chromatography; Sucrose transport; Plasmalemma; Reconstitution; (Plant); (Sugar beet) (Li, Z.-S. (1219) 389)

Protein kinase C; Lipocortin I; Phosphorylation; Cytosol; Permeabilization; (Pig granulocyte) (Farkas, G. (1220) 315)

β-Adrenergic receptor; Sialic acid; DNA synthesis; Parotid gland; (Mouse) (González Burgos, M.J. (1222) 208)

Atrial natriuretic factor; Guanylate cyclase-coupled ANF receptor; Mastoparan; Leydig cell (Khurana, M.L. (1224) 61)

Phosphatidylinositol cycle; Inositol phospholipid; Phospholipase C (Silence, D.J. (1224) 247)

NADH oxidase; cyclic AMP; Growth; (Porcine liver) (Morré, D.J. (1224) 566)

Oocyte; Progesterone; Phospholipid; Sphingomyelin; *N*-methylation; (*Rana pipiens*) (Morrill, G.A. (1224) 589)

Plasma membrane electron transport
Bombesin; Growth control; Sodium ion/proton antiport; Transferrin (Sun, I.L. (1221) 206)

Plasma membrane fatty acid-binding protein, ($FABP_{pm}$)
Placental membrane; Fatty acid; (Sheep placenta) (Campbell, F.M. (1214) 187)

Plasma membrane protein
Asialoglycoprotein receptor; Cell polarity; (Intestinal epithelial cell); (Human) (Mu, J.-Z. (1222) 483)

Plasma membrane purification
Inside-out vesicle; Sterol; Phospholipid; ATPase, H^+- (Hernández, A. (1195) 103)

Plasma membrane recycling
Cystic fibrosis; Cystic fibrosis transmembrane conductance regulator (CFTR); Exocytosis; Fluorescence; (CHO cell) (Dho, S. (1225) 78)

Plasma membrane vesicle
Sodium ion/glucose cotransport; Glucose transport; Phlorizin (Oelberg, D.G. (1194) 92)

Plasma protein
Electrical impedance; Electrolyte; Erythrocyte; Interfacial polarisation; Membrane; (Blood) (Zhao, T.-X. (1201) 179)

Purification; Kallikrein; Complement system; (Human) (Pu, X.P. (1208) 338)

Plasmalogen
Ether lipid; Phospholipid transfer; Fluorescence spectroscopy; Vesicle-platelet interaction (Malle, E. (1189) 61)

Desaturase; Fatty acid (Rangaswamy, S. (1211) 79)

Peroxisomal proliferator; Ethanolamine phosphoglyceride; Phospholipid metabolism; Adrenoleukodystrophy; Zellweger syndrome; Clofibrate; (Human fibroblast) (Thorne, P.C. (1214) 161)

Arachidonic acid; Docosahexaenoic acid; Docosapentaenoic acid; Icosanoid; Icosapentaenoic acid; Fish oil; Glyceryl ether; Nutrition; ($n-3$) Fatty acid; Platelet-activating factor; Transacylase (Blank, M.L. (1214) 295)

Plasmalogen biosynthesis
Peroxisome; Acyl-CoA:dihydroxyacetonephosphate acyltransferase; Protein purification (Ofman, R. (1206) 27)

Plasmenylethanolamine
TxA_2 /PGH_2 receptor; Platelet; (Human) (Turini, M.E. (1213) 21)

Plasmid DNA
5-Aminolevulinic acid; Reactive oxygen species; Single-strand break; DNA damage; Acute intermittent porphyria; Liver-cell carcinoma (Onuki, J. (1225) 259)

α 2-Plasmin inhibitor
Antithrombin; Serine proteinase; (Hep-G2 cell) (Mori, K. (1226) 300)

Plasminogen
Osteoblast; Plasminogen activator; Vitamin D; Parathyroid hormone (Fukumoto, S. (1201) 223)

Heymann nephritis; Gp330; Urokinase; Autoantibody (Kanalas, J.J. (1225) 101)

Lipoprotein (a); Kringle 4-37; Lysine binding pocket; Point mutation; (Human) (Scanu, A.M. (1227) 41)

Plasminogen activation
Staphylokinase; Site-specific mutagenesis (Schlott, B. (1204) 235)

5,6-*trans*-Prostaglandin E_2; Urokinase; Streptokinase; Fibrinolysis (Urano, T. (1205) 258)

Plasminogen activator
Osteoblast; Plasminogen; Vitamin D; Parathyroid hormone (Fukumoto, S. (1201) 223)

Plasminogen activator inihibitor-1; Latency; Reactive center; Serpin (Munch, M. (1202) 29)

Plasminogen activator inhibitor; K2P; Enzyme kinetics; Binding rate; Plasmon resonance (Björquist, P. (1209) 191)

Cartilage; Chondrocyte; Cytokine; Arthritis; Proteinase inhibitor (Campbell, I.K. (1226) 277)

Plasminogen activator inhibitor
Plasminogen activator; K2P; Enzyme kinetics; Binding rate; Plasmon resonance (Björquist, P. (1209) 191)

Plasminogen activator inhibitor 1
Human urokinase; Polyethylene glycol-polypropylene glycol; Kinetic analysis; Peptide map (Kajihara, J.-i. (1199) 202)

Vitronectin; Fibrinolysis; Protein–protein interaction (Sigurdardottir, O. (1208) 104)

Plasminogen activator inhibitor-1
Interleukin 6; ELISA; Gene transcription; (Human lung fibroblast) (Samad, F. (1221) 307)

Plasminogen activator inhibitor type 1
Urokinase type plasminogen activator; Heparin; Heparan sulfate (Urano, T. (1201) 217)

Plasminogen activator inhibitor-1
Plasminogen activator; Latency; Reactive center; Serpin (Munch, M. (1202) 29)

Plasmon resonance
Plasminogen activator inhibitor; Plasminogen activator; K2P; Enzyme kinetics; Binding rate (Björquist, P. (1209) 191)

Plastidic protein
APS-kinase; APS-sulfotransferase; cDNA sequence; Gene function; Protein expression; (*Arabidopsis thaliana*) (Arz, H.E. (1218) 447)

Plastocyanin
Cytochrome c_6; Flash absorption spectroscopy; Photosystem I; (*Synechocystis*) (Hervás, M. (1184) 235)

Photosystem I; Crystal; X-ray structure; Photosynthesis; Ferredoxin (Fromme, P. (1187) 99)

Copper protein; *petE*; Prochlorophyte; Transit peptide; Photosynthesis; (*Prochlorothrix*) (Arudchandran, A. (1188) 447)

Fluorescence spectroscopy; Photosynthesis; Isoelectric point; Primary structure; Dimorphism; (Tobacco) (Dimitrov, M.I. (1203) 184)

Plastoquinone
Chloroplast; Cytochrome *bf* complex; Electron transport; Q-cycle; Semiquinone (Kramer, D.M. (1183) 72)

Photosynthesis; Chloroplast; Diffusion; Percolation theory (Blackwell, M. (1183) 533)

Chloroplast; Cytochrome *bf* complex; Electron transport; Semiquinone; Duroquinone; Duroquinol (Kramer, D.M. (1184) 251)

Plastosemiquinone
Protein phosphorylation; Redox sensor; Cytochrome b_6f; Protein kinase; Redox titration; (Chloroplast thylakoid) (Silverstein, T. (1183) 215)

Platelet
Aggregation; Hepoxilin A_3; Shear stress; (Human) (Margalit, A. (1190) 173)

Activation; Microparticle; Calpeptin; Cytoskeleton; (Filopod) (Bassé, F. (1190) 217)

Membrane protein; Protein transfer; Liposome; Platelet activation; Artificial boundary lipid (Okumura, Y. (1194) 335)

Small G-proteins; rap1B; Cytoskeleton; cAMP; Concanavalin A (Ramaschi, G. (1199) 20)

Nitric oxide; Nitric oxide synthase; Purification; Calmodulin (Muruganandam, A. (1200) 1)

Clausine-D; Aggregation inhibition; Thromboxane A_2 (Wu, C.-C. (1201) 1)

Phosphodiesterase; Protein purification; Protein structure; (Human) (Degerman, E. (1205) 189)

Eicosapentaenoic acid; Docosahexaenoic acid; Ethyl ester; Fatty Acid; Monocyte; (Red blood cell); (Human) (Marangoni, F. (1210) 55)

Leukotriene A_4; Lipoxin synthesis; Platelet activation; (Human) (Edenius, C. (1210) 361)

TxA_2/PGH_2 receptor; Plasmenylethanolamine; (Human) (Turini, M.E. (1213) 21)

Arachidonic acid; Venom; Phospholipase A_2; (Mammalian) (Mounier, C. (1214) 88)

Subcellular fraction; Acyl-CoA hydrolase; Acyl-CoA:1-acyl-lysophospholipid acyltransferase; (Human) (Bakken, A.M. (1214) 180)

Thrombocyte; Icosanoid; U-46619; Platelet-activating factor; Leukotriene; Lipoxin; Thrombin; Fibrinogen; Hemostasis; (Rainbow trout); (*O. mykiss*) (Lloyd-Evans, P. (1215) 291)

Calcium; Sodium; Fluorescent dye technique; Fura-2; (Human) (Tepel, M. (1220) 248)

Thromboxane A_2; Prostaglandin H_2; Receptor; Phosphorylation (Okwu, A.K. (1221) 83)

Phosphatidic acid; Phospholipase D; Phospholipase A_2; Arachidonic acid liberation; (Rabbit) (Hashizume, T. (1221) 179)

Annexin V; Thrombin; Membrane; (Human) (Trotter, P.J. (1222) 135)

Phencyclidine; Epinephrine; Aggregation; NMDA receptor (Raulli, R.E. (1224) 175)

Calpain; Protein kinase C; Down-regulation; Secretion (Patel, Y. (1224) 480)

Platelet-activating factor
Yeast; GC-MS; (*Saccharomyces cerevisiae*) (Nakayama, R. (1199) 137)

HETEs; Leukotriene B_4; Polymorphonuclear neutrophil; Tumor necrosis factor-α; ATP (O'Flaherty, J.T. (1201) 505)

Phosphatidylcholine; Polyunsaturated fatty acid; Lipid peroxidation; Platelet aggregation; GC-MS (Tanaka, T. (1210) 202)

HETEs; Phospholipid; Neutrophil; Receptor (O'Flaherty, J.T. (1210) 209)

MgATP; Inhibition; Acetyltransferase; Microsome; Cerebral cortex; (Rabbit) (Baker, R.R. (1213) 27)

Arachidonic acid; Docosahexaenoic acid; Docosapentaenoic acid; Icosanoid; Icosapentaenoic acid; Fish oil; Glyceryl ether; Nutrition; ($n-3$) Fatty acid; Plasmalogen; Transacylase (Blank, M.L. (1214) 295)

Transacylase; Arachidonate movement; Neutrophil (Winkler, J.D. (1215) 133)

Thrombocyte; Platelet; Icosanoid; U-46619; Leukotriene; Lipoxin; Thrombin; Fibrinogen; Hemostasis; (Rainbow trout); (*O. mykiss*) (Lloyd-Evans, P. (1215) 291)

Platelet activation
Membrane protein; Protein transfer; Platelet; Liposome; Artificial boundary lipid (Okumura, Y. (1194) 335)

Leukotriene A_4; Lipoxin synthesis; Platelet; (Human) (Edenius, C. (1210) 361)

Platelet aggegation
Myosin light-chain kinase; Platelet shape change; Wortmannin (Hashimoto, Y. (1223) 163)

Platelet aggregation
Phosphatidylcholine; Polyunsaturated fatty acid; Lipid peroxidation; Platelet-activating factor; GC-MS (Tanaka, T. (1210) 202)

Phospholipase A_2; Lysophosphatidylcholine; Thromboxane A_2 receptor (Huang, T.-F. (1211) 61)

Phospholipase D; Collagen (Chiang, T.M. (1224) 147)

Platelet aggregation inhibitor
cDNA sequence; Metalloproteinase; Hemorrhagic protein; (*T. mucrosquamatus*) (Tsai, I.-H. (1200) 337)

Platelet-derived endothelial cell growth factor
Nucleotide sequence; Thymidine phosphorylase; Growth factor (Usuki, K. (1222) 411)

Platelet-derived growth factor
Elastin; Angiotensin II; Smooth muscle cell (Tokimitsu, I. (1207) 68)

Gene expression; Lipopolysaccharide; Probucol; Interleukin 1; U-937; Reverse transcription-polymerase chain reaction (Li, S.-R. (1225) 271)

Platelet exocytosis
Aggregation; Protein kinase C; Tumor promoter; (Platelet cell); (Human) (Hashimoto, Y. (1222) 56)

Platelet shape change
Myosin light-chain kinase; Platelet aggegation; Wortmannin (Hashimoto, Y. (1223) 163)

PLC inhibitor
Endothelin; Parathyroid hormone; UMR-106 cell; Intracellular calcium; Inositol phosphate; PTX (Tatrai, A. (1224) 575)

PM_2 DNA
Ultraviolet irradiation; Supercoiling; Conformational transition (Peterson, C.A. (1216) 265)

Point mutation
Serum albumin; Genetic variant; Isoelectric focusing; Amino acid sequence; DNA sequence; (Human) (Galliano, M. (1225) 27)

Lipoprotein (a); Kringle 4-37; Lysine binding pocket; Plasminogen; (Human) (Scanu, A.M. (1227) 41)

Polar compound
Stratum corneum; Percutaneous absorption; Alcohol (Goates, C.Y. (1195) 169)

Polarization
Horseradish peroxidase; Peroxidase; Protoporphyrin IX; Fluorescence (Brunet, J.E. (1203) 171)

Polarized fluorescence
Photosystem I; Spectroscopy; Site selection; (*Synechocystis*) (Gobets, B. (1188) 75)

Polarized fluorescence depletion
MHC class I antigen; Luteinizing hormone receptor; Rotation dynamics; (Ovine luteal cell) (Kenny, N. (1220) 94)

Polarized light spectroscopy
Energy transfer; Excitation energy transfer; Photosynthesis; Light harvesting; Carotenoid; Ultrafast laser spectroscopy; (Bacteria) (Van Grondelle, R. (1187) 1)

Polarized spectroscopy
Photosystem II; Excitation energy transfer; Light harvesting complex (Van Amerongen, H. (1188) 227)

Pollen
Allergy; *Bet v* I; Microbial pathogen; Pathogenesis-related protein; (*Betula*) (Swoboda, I. (1219) 457)

Polyacrylamide
Drug carrier; Long-circulating liposome; Amphiphilic polymer; Poly(vinyl pyrrolidone); Biodistribution (Torchilin, V.P. (1195) 181)

Polyadenylation
Calcitonin/CGRP-I gene; RNA processing (Van Oers, C.C.M. (1218) 55)

Polyadenylation signal
Histidase; Histidinemia; cDNA; *N*-Glycosylation; (Human) (Suchi, M. (1216) 293)

hnRNP-U; SAF-A (Fackelmayer, F.O. (1217) 232)

Polyadenylation site
Luteinizing hormone receptor; 3'-Noncoding region; Repetitive DNA; DNA; mRNA heterogeneity; (Rat) (Hu, Z.-Z. (1220) 333)

Poly(ADP-ribose)
Active oxygen species; Benzamide; Cytotoxicity (Lautier, D. (1221) 215)

Poly(ADP-ribose) glycohydrolase
Long free polymer; Endo-exo-glycohydrolase (Brochu, G. (1219) 342)

Poly(ADP-ribose)polymerase
Protein kinase; Phorbol myristate acetate; Phytohemagglutinin; Signal transduction; Phosphorylation; (Lymphocyte) (Bauer, P.I. (1223) 234)

PolyADP-ribosylation
Thymocyte depletion; Dex; 3-ABAm; CD4/CD8 phenotypes (Hoshino, J. (1201) 516)

Polyamine
Intracellular free magnesium; Magnesium ion, intracellular; Mag-fura-2; NMR, ^{31}P- (Günther, T. (1192) 281)

Prolyl oligopeptidase; Endogenous inhibitor; Regeneration (Rat liver) (Yamakawa, N. (1199) 279)

S-Adenosylmethionine decarboxylase; Agmatine; Soybean (Choi, Y.S. (1201) 466)

Ornithine decarboxylase; Ornithine decarboxylase antizyme (Tewari, D.S. (1209) 293)

Spermidine/spermine N^1-acetyltransferase; Gene regulation; Cloning; Sequence analysis; cDNA; (Mouse) (Fogel-Petrovic, M. (1216) 255)

Translation fidelity; Streptomycin; (*E. coli*) (Nastri, H.G. (1216) 455)

Transport; COS cell; Methylglyoxal bis(guanylhydrazone); Difluoromethylornihine (Hyvönen, T. (1221) 279)

Putrescine; Export; Ornithine (Hawel, III, L. (1222) 15)

Putrescine; Uptake; Brush-border membrane; Small intestine; Tumor; (Rat tissue) (Brachet, P. (1227) 161)

Polyamine toxicity
Magnesium ion transport; Spermine transport; (*S. cerevisiae*) (Maruyama, T. (1194) 289)

Polycystic kidney disease
Epithelial polarity; Cytoskeleton; Ischemia; Proximal tubule; Microvillous inclusion disease (Leiser, J. (1225) 1)

Polyenoic very-long-chain fatty acid
Arachidonic acid; Metabolism; Monohydroxylated fatty acid; Neutrophil; (Human) (Robinson, B.S. (1213) 325)

Poly(ethylene glycol)
Membrane fusion; Surfactant; Phospholipase C; Resonance energy transfer; (B16 melanoma cell) (Partearroyo, M.A. (1189) 175)

Liposome; Biodistribution; Drug delivery (Litzinger, D.C. (1190) 99)

Membrane fusion; Phospholipid vesicle; Octadecyl Rhodamine B chloride; Fluorescence quenching; Fluorescence dequenching; Phase transition (Arnhold, J. (1191) 375)

Long-circulating liposome; Liposome; Computer simulation; Fluorescence quenching; Anti-fluorescein antibody (Torchilin, V.P. (1195) 11)

Liposome; Drug delivery system; Stability; Exchange; Biodistribution (Parr, M.J. (1195) 21)

Liposome; Streptavidin; Biotin; Ganglioside; Targeted liposome (Corley, P. (1195) 149)

Poly(ethylene glycol) derivative
Membrane fusion; pH-sensitive liposome; Liposome; Phosphatidylcholine; Drug delivery system (Kono, K. (1193) 1)

Poly(ethylene glycol) modified protein
Methane monooxygenase; Crosslinking; Organic solvent (Jiang, Y. (1201) 76)

Poly(ethylene glycol) polypropylene glycol
Human urokinase; Plasminogen activator inhibitor 1; Kinetic analysis; Peptide map (Kajihara, J.-i. (1199) 202)

Polyhedrin gene sequence
Nuclear polyhedrosis virus; (*Spodoptera littoralis*) (Croizier, L. (1218) 457)

Polyhemic cytochrome *c*
Cytochrome c_3; Protein sequence; Amino acid sequence comparison; Sulfate-reducing bacterium (Bruschi, M. (1205) 123)

Poly(L-lysine)
Alpha helix; Beta structure; Structure transition; Phosphatidic acid vesicle; Stopped-flow circular dichroism; Circular dichroism (Fukushima, K. (1191) 133)

Polylysine
Cationic liposome; DNA transfection; Drug delivery; Gene therapy (Zhou, X. (1189) 195)

Polymer
Neuroblastoma; Respiration; Electron paramagnetic resonance; Oximetry; Oxygen diffusion (Smirnov, A.I. (1200) 205)

Polymerase chain reaction
Cell cycle; Cell division; Cyclin; (*Arabidopsis thaliana*) (Day, I.S. (1218) 115)

Malaria; Cloning; Hexose monophosphate shunt (Shahabuddin, M. (1219) 191)

Homeobox; Homeodomain; Transcription; Development; Wounding; (*Brassica napus*) (Boivin, R. (1219) 201)

CTP:phosphocholine cytidyltransferase; Amino acid sequence; cDNA expression; (Erythroleukemia cell); (Human) (Kalmar, G.B. (1219) 328)

Expression; Amino acid sythesis; (*E. coli*); (Mouse); (3T3 cell) (Saqib, K.M. (1219) 398)

Inter-α-trypsin inhibitor; Multigene family; Gene sequence; Proteinase inhibitor (Diarra-Mehrpour, M. (1219) 551)

Recombinant DNA; DNA; MAP kinase kinase; (Carp); (*C. carpio*) (Huang, C.-J. (1220) 223)

Angiotensin converting enzyme; Peripheral blood monocyte; Colony-stimulating factor; Alveolar macrophage (Lazarus, D.S. (1226) 12)

Polymerizable lipid
Diacetylenic lipid; X-ray diffraction; Electron diffraction; Langmuir-Blodgett film (Rhodes, D.G. (1215) 237)

Polymerizable surfactant vesicle
Lipase; Vesicle membrane; Protein–membrane interaction; Fluorescence anisotropy; Energy transfer (Mosmuller, E.W.J. (1189) 45)

Polymerization inhibition
Actin; Peptide fragment; Subdomain 4; Filament severing; Actin–actin contact (Hori, K. (1186) 35)

Polymine metabolism
Phosphoinositol turnover; Sucrose monostearate (Matsui-Yuasa, I. (1224) 413)

Polymorphic
GP42; Basigin; Gene; Immunoglobulin superfamily; (Mouse) (Cheng, Y. (1217) 307)

Polymorphism
Perfluoroalkylated phosphatidylcholine; Phospholipid; Liposome; Fluorinated liposome; Vesicle; Membrane (Santaella, C. (1190) 25)

Acid β-galactosidase; Catalytic activity; Site-directed mutagenesis; (Mouse) (Hara, Y. (1217) 49)

Cobalamin; Transcobalamin II; Amino acid substitution; Arginine; (Caco-2 cell); (Fibroblast) (Li, N. (1219) 515)

Polymorphonuclear leucocyte
LDL; Oxidation; Macrophage scavenger receptor; Atherosclerosis (Katsura, M. (1213) 231)

Polymorphonuclear neutrophil
HETEs; Leukotriene B_4; Tumor necrosis factor-α; Platelet-activating factor; ATP (O'Flaherty, J.T. (1201) 505)

Polyol pathway
Sorbitol dehydrogenase; Aldose reductase; Diabetic complication; (Diabetic rat) (Kicic, E. (1226) 213)

Polypeptide
Amphiphile; Detergent; Erythrocyte; Vesiculation; Phospholipid; Cholesterol; Glycoprotein (Hägerstrand, H. (1190) 409)

Bone resorption; Bone matrix (Hill, P.A. (1201) 193)

Polypeptide composition
Agglutinin; Lectin; Primary structure; (*B. mildbraedii*) (Chawla, D. (1202) 38)

Polypeptide, 22 kDa
Photosynthesis; Membrane protein; Western blot; Trypsin (Kim, S. (1188) 339)

Polyphospoinositide
Signal transduction; Phosphatidylinositol 3-kinase; Protein-tyrosine kinase; SH2 domain; SH3 domain (Varticovski, L. (1226) 1)

Polyprenyldiphosphate
Polyprenyl transferase; Ubiquinone biosynthesis; (*E. coli*) (Melzer, M. (1212) 93)

Polyprenyl transferase
Polyprenyldiphosphate; Ubiquinone biosynthesis; (*E. coli*) (Melzer, M. (1212) 93)

Polysaccharide
Protein; Nucleic acid; DNA; Cell envelope; Cytoplasmic membrane; ATP; Phosphate potential; Protonmotive force (Palmen, R. (1183) 417)

Polyubiquitin gene
Size heterogeneity; Evolutionary conservation; (Chinese hamster) (Nenoi, M. (1204) 271)

Polyunsaturated fatty acid
Phosphatidylcholine; Lipid peroxidation; Platelet-activating factor; Platelet aggregation; GC-MS (Tanaka, T. (1210) 202)

Lipoxygenase; Mass spectrometry; Cornea; Epithelium; (Human); (Bovine) (Liminga, M. (1210) 288)

Turbot; Astrocyte; Primary culture; Prostaglandin (Bell, J.G. (1211) 335)

Phospholipid molecular species; Phosphatidylcholine; Phosphatidylethanolamine; Stearic acid; Palmitic acid; Hepatocyte; (Rat) (Woldseth, B. (1213) 39)

Stunned myocardium; Mitochondrial function; Oxidative metabolism (Demaison, L. (1227) 53)

(*n* −3) Polyunsaturated fatty acid
Fat absorption; Marine fat; Chylomicron; (Rat) (Christensen, M.S. (1215) 198)

Polyunsaturated free fatty acid
Rough endoplasmic reticulum; Membrane fusion; Gas chromatography; GTP; CMP (Paiement, J. (1190) 199)

Polyunsaturated lipid
Photosynthetic membrane; Chloroplast ultrastructure; Membrane structure; Mutation; Fatty acid desaturation; (*Arabidopsis*) (Tsvetkova, N.M. (1192) 263)

Polyunsaturated/saturated fatty acid ratio (P/S ratio)
Short-term continuous feeding; Icosapentaenoic acid; Icosanoid; Septic shock (Utsunomiya, T. (1214) 333)

Poly(vinyl pyrrolidone)
Drug carrier; Long-circulating liposome; Amphiphilic polymer; Polyacrylamide; Biodistribution (Torchilin, V.P. (1195) 181)

Pore-forming toxin
Primary structure; Secondary structure; Protein–lipid interaction (Belmonte, G. (1192) 197)

Porin
Voltage gating; Planar bilayer; Membrane insertion; (*H. influenzae*) (Dahan, D. (1189) 204)

Channel gating; Lipopolysaccharide; Outer membrane; Planar membrane (Wiese, A. (1190) 231)

Porphyrias
Microsome; Lipid peroxidation; Photooxidation; Protoporphyrin; Bilirubin (Williams, M. (1211) 310)

Porphyrin
Aggregation; Chlorin; Pheophytin *a* epimer; NMR, ^{1}H-; Photosensitization (Hynninen, P.H. (1183) 374)

Hydrogen bond; NMR, ^{1}H-; Chlorophyll; Photosynthesis (Hynninen, P.H. (1183) 381)

Positional identity
Protein sequence; Trypsin/chymotrypsin inhibitor; Kunitz-type inhibitor; P_1 site; (Giant taro (*A. macrorrhiza*)) (Argall, M.E. (1204) 189)

Positional isomer
Lysophosphatidylcholine; Phospholipase A_1 (Satouchi, K. (1214) 303)

Positional specificity
Lipoxygenase; Stereospecificity; Arachidonic acid; (Tomato) (Regdel, D. (1210) 297)

Site-directed mutagenesis; Arachidonic acid; 12-Lipoxygenase; Prokaryotic expression; Iron-binding domain; (Porcine) (Suzuki, H. (1210) 308)

Lecithin-cholesterol acyltransferase; Arachidonate; Docosahexaenoate; Recombinant LCAT; Mouse-human chimera (Subbaiah, P.V. (1215) 150)

Postprandial
Apolipoprotein; Apolipoprotein B; Intestine; mRNA; (Human) (Lopez-Miranda, J. (1214) 143)

Post-receptor metabolism
Glucose toxicity; Phlorizin (Mick, G.J. (1226) 315)

Post-transcription
PDGF-A; 5′-UTR; Gene regulation (Takimoto, Y. (1222) 511)

Posttranslational modification
Cytochrome *c*; Over-expression; *cccA*; (*B. stearothermophilus*) (Noguchi, S. (1188) 302)

Mimosine; Cell cycle; Hypusine (Hanauske-Abel, H.M. (1221) 115)

Post-translational processing
Histidine decarboxylase; Mastocytoma cell; Baculovirus expression vector; (Mouse) (Yamamoto, J. (1216) 431)

Posttranslational processing
Vitellogenin; cDNA cloning; Primary structure; Developmental regulation; (*B. mori*) (Yano, K.-i. (1218) 1)

Posttranslational regulation
Apo B-100; Apo A-I; Intracellular degradation; Butyrate; HepG2 (Kaptein, A. (1213) 349)

Potassium
Amino acid transport; (Yeast) (Rosas, G. (1195) 223)

Potassium chloride
Ca-dependent K channel; Cell dehydration; Sickle cell anaemia; Erthrocyte (Apovo, M. (1225) 225)

Potassium ion
Hepoxilin A_3; Hepoxilin B_3; Calcium ion; Second messenger system (Pace-Asciak, C.R. (1215) 1)

Calcium ion; Calcium channel; Chorionic gonadotropin; Placental lactogen; Placenta; (Human) (Meuris, S. (1220) 101)

Potassium ion activation
ATPase, H^+/K^+-; Tertiary amine; Inhibitor (Swarts, H.G.P. (1189) 143)

Potassium ion channel
mRNA expression; Hypo-osmotic response; Oocyte; A6 cell; (*Xenopus*) (Ratcliff, F.G. (1190) 248)

Patch clamp; Adenosine triphosphate; Skeletal muscle; Calcium dependent inactivation; (Mouse) (Hehl, S. (1190) 257)

Sulfonylurea receptor; Insulin secretion; Photoaffinity labeling; Glimepiride; Glibenclamide; ATP-regulated K^+-channel; Beta cell (Kramer, W. (1191) 278)

Potassium ion channel, ATP-sensitive
Magnetic field; Single-channel conductance (Wang, K.-W. (1195) 218)

Potassium ion channel, SV type
Calcium ion dependence; Voltage dependence; Multichannel analysis; Perfusion pipette; Vacuolar membrane; Tonoplast; (*C. rubrum*) (Reifarth, F.W. (1192) 79)

Potassium ion conductance
Calcium ion; Calmodulin; Colonic epithelial cell (Fogg, K.E. (1221) 185)

Potassium ion efflux
ATPase, Na^+/K^+-; Palytoxin; Red blood cell (Tosteson, M.T. (1191) 371)

Potassium ion ionophore
Neuron differentiation; Nigericin; Nerve growth factor; Valinomycin; (Pheochromocytoma cell); (Rat) (Harada, H. (1220) 310)

Potassium ion/leucine cotransport
Phenylglyoxal; Leucine transport; Brush-border membrane vesicle; Chemical modification; (Lepidopteran larva) (Parenti, P. (1191) 27)

Potassium ion-translocating gene
Potassium ion transport; *trkA* gene; DNA sequence; (Marine bacterium); (*V. alginolyticus*) (Nakamura, T. (1219) 701)

Potassium ion transport
Potassium ion-translocating gene; *trkA* gene; DNA sequence; (Marine bacterium); (*V. alginolyticus*) (Nakamura, T. (1219) 701)

Potato inhibitor I
Amino acid sequence; Eglin; Trypsin inhibitor; Subtilisin inhibitor; (*A. caudatus*) (Hejgaard, J. (1204) 68)

Potato tuber lipoxygenase
Enzyme adsorption; Talc (Battu, S. (1211) 270)

Potential-sensitive transport
Renal transport; Organic anion; *p*-Aminohippurate; Anion exchanger; Chemical modification (Takano, M. (1192) 190)

Potocytosis
Folate/hydroxyl antiport; Folate receptor; Proton pump; Proton gradient; (Choriocarcinoma cell) (Prasad, P.D. (1222) 309)

ppGPP
spoT; Transcriptional readthrough; Translational readthrough (Faxén, M. (1219) 425)

p47 phosphorylation
Protein kinase C inhibitor; NADPH oxidase activity; Superoxide production; Opsonized zymosan; (Neutrophil); (Human) (Levy, R. (1220) 253)

p47-phox
HL-60; Eosinophilic differentiation; NADPH oxidase; Cytochrome *b*-558; p67-phox (Miyamoto, D. (1224) 11)

p67-phox
HL-60; Eosinophilic differentiation; NADPH oxidase; Cytochrome *b*-558; p47-phox (Miyamoto, D. (1224) 11)

PPIase
Peptidyl-prolyl *cis-trans* isomerase; Rotamase; Esterase; Mutant; Sequence (Kok, R.G. (1219) 601)

P_2-purinoceptor
Cartilage; ATP, extracellular; Interleukin 1; Transforming growth factor-β; Tumour necrosis factor α (Leong, W.S. (1201) 298)

Pravastatin
Phosphatidate phosphohydrolase; HMG-CoA reductase; Lovastatin; Triacylglycerol; VLDL (Humble, E. (1214) 32)

Enzyme inhibition; Carrier protein; Hepatocyte; (Hep G2 cell) (Ziegler, K. (1223) 195)

Preadipocyte
Adenylyl cyclase; Androgen; (Rat) (Lacasa, D. (1224) 527)

Precartilage chromatin protein
Mandibular condylar chondrocyte; Mechanical stress; Signal transduction; Protein phosphorylation; G protein, small (Basdra, E.K. (1222) 315)

Precursor
Serine proteinase; Alzheimer's disease; Brain; (Human) (Dihanich, M. (1218) 225)

Catalase; cDNA sequence; Peroxisome; Processing; (*H. annuus*) (Kleff, S. (1224) 463)

Precursor protein
Protein processing; Mitochondrial processing peptidase; Protein import; Ubiquinol cytochrome *c* oxidoreductase complex (Eriksson, A.C. (1186) 221)

***P*-450 reductase**
Cytochrome *c*; Cytochrome $P\text{-}450_{BM\text{-}3}$; Monooxygenase; Electron transfer; (*B. megaterium*) (Klein, M.L. (1201) 245)

Pregnancy-specific β_1-glycoprotein
Gene sequence; Carboxy-terminal domain; β_1-Glycoprotein (Joe, T.W. (1219) 195)

Preimplantation development
Taurine transporter; TAUT; Volume regulation; Preimplantation embryo; Insulin (Van Winkle, L.J. (1191) 244)

Preimplantation embryo
Taurine transporter; TAUT; Volume regulation; Insulin; Preimplantation development (Van Winkle, L.J. (1191) 244)

Prejunctional receptor
Neuropeptide; NMR; Protein; Structure (Barden, J.A. (1206) 191)

Prenylated protein
Cholesterol; Dolichol; Ubiquinone (Grünler, J. (1212) 259)

Prenylated protein methyltransferase
Endometrial carcinoma; Methylation; Ras (Klein, Z. (1226) 330)

***cis*-Prenyltransferase**
Microsome; Peroxisome; Farnesyl pyrophosphate synthase; Squalene synthase; Mevalonate pathway (Andersson, M. (1214) 79)

Preparation method
Cytochrome *c* oxidase; Ligand; Cyanide; Optical absorbance spectroscopy; EPR (Lodder, A.L. (1186) 67)

Preparative isoelectric focusing
Acyltransferase; Dodecylmaltoside; Phospholipid metabolism; Membrane protein; Phosphatidylethanolamine; Fatty acid (Chapman, K.D. (1211) 29)

Pre-steady-state kinetics
Cytochrome *c* oxidase; Hydrogen peroxide; Cytochrome *c*; Ionic strength (Lodder, A.L. (1185) 303)

NADH:Q oxidoreductase; Ubisemiquinone; Energy coupling; Fe-S cluster; (Bovine heart mitochondria) (De Jong, A.M.Ph. (1186) 163)

Presynaptic membrane
Static magnetic field; Diamagnetism; Neuromuscular junction; Magnetic field (Rosen, A.D. (1193) 62)

Preterm labour
Pulmonary surfactant protein; SP-A; SP-D; Amniotic fluid; Fetal membrane; Chorioamniotic; (Human) (Miyamura, K. (1210) 303)

Primary culture
Proximal tubule; Zinc; Apical; Basolateral; Uptake; Efflux; (Rabbit kidney cell) (Gachot, B. (1191) 291)

Bile acid synthesis; Hepatocyte; Cholesterol; (Hamster) (Hoang, V.-Q. (1210) 73)

Turbot; Astrocyte; Prostaglandin; Polyunsaturated fatty acid (Bell, J.G. (1211) 335)

Primary cultured hepatocyte
Aflatoxin B_1; Benzo[*a*]pyrene; Binding protein; (Chicken embryo) (Iwaki, M. (1225) 83)

Primary electron donor
Photosynthetic reaction center; Single crystal; EPR; ENDOR; Spin density distribution; Molecular orbital theory; (*Rb. sphaeroides*) (Lendzian, F. (1183) 139)

Primary structure
Pore-forming toxin; Secondary structure; Protein–lipid interaction (Belmonte, G. (1192) 197)

Nuclease; Enzyme isoform; Plasma desorption mass spectrometry; (*S. marcescens*); (*E. coli*) (Pedersen, J. (1202) 13)

Agglutinin; Lectin; Polypeptide composition; (*B. mildbraedii*) (Chawla, D. (1202) 38)

Fluorescence spectroscopy; Photosynthesis; Isoelectric point; Plastocyanin; Dimorphism; (Tobacco) (Dimitrov, M.I. (1203) 184)

Metalloproteinase; Collagenase/gelatinase, 92 kDa type IV; Expression; Activation; Substrate specificity; (*E. coli*) (Pourmotabbed, T. (1204) 97)

Proteinase inhibitor; Inhibitory property; Subtilisin inhibitor-like protein; (*S. cacaoi*) (Kojima, S. (1207) 120)

Pseudo-hevein; Hevein; Ion-spray mass spectrometry; (*H. brasiliensis*) (Soedjanaatmadja, U.M.S. (1209) 144)

Lipoxygenase; Pineal gland; (Rat) (Hada, T. (1211) 221)

Cytochrome *P*-450; cDNA cloning; Expression; (Guinea pig); (Yeast) (Ohgiya, S. (1216) 237)

Vitellogenin; cDNA cloning; Posttranslational processing; Developmental regulation; (*B. mori*) (Yano, K.-i. (1218) 1)

DNA cloning; Ribonucleotide reductase; Herpesvirus (Kaliman, A.V. (1219) 151)

Primary transport system
Enzyme II; Phosphotransferase; Carbohydrate transport; Phospho-*enol*pyruvate; (Bacteria) (Lengeler, J.W. (1188) 1)

Principal sigma factor
rpoD gene; Nucleotide sequence; (*Lactococcus lactis*) (Gansel, X. (1216) 115)

Prismane protein
Electron paramagnetic resonance; Complex Fe-S cluster; [6Fe-6S] cluster; Redox titration; Molecular cloning; *(Desulfovibrio)* (Van den Berg, W.A.M. (1206) 240)

Proapolipoprotein A-I
Apolipoprotein A-I; Amino acid analysis; Isoprotein (Saku, K. (1217) 29)

Probucol
Gene expression; Lipopolysaccharide; Interleukin 1; Platelet-derived growth factor; U-937; Reverse transcription-polymerase chain reaction (Li, S.-R. (1225) 271)

Processing
Catalase; cDNA sequence; Peroxisome; Precursor; (*H. annuus*) (Kleff, S. (1224) 463)

Prochlorophyte
Plastocyanin; Copper protein; *petE*; Transit peptide; Photosynthesis; (*Prochlorothrix*) (Arudchandran, A. (1188) 447)

Procollagen propeptide
Collagen; Collagen cDNA; cDNA; Invertebrate collagen; (Sea urchin) (Tomita, M. (1217) 131)

Product activation
ATPase, H^+-; ϵ-Subunit; (*E. coli*) (Wu, J.-H. (1185) 50)

Product entrapment
(1,3)β-Glucan synthase; 5-Azido-[^{32}P]UDP-glucose; (*N. crassa*) (Awald, P.D. (1201) 312)

Product inhibition
Enzyme kinetics; Reversible reaction; Cooperative interaction (Duggleby, R.G. (1209) 238)

Progastrin
Phosphorylation; Casein kinase; Golgi membrane kinase; Hormone processing; (Human); (Rat) (Vegh, M. (1205) 49)

Progesterone
Hydrophobic proteoglycan; Cholesterol sulfate; (Endometrial epithelial cell); (Guinea pig) (Nicollier, M. (1220) 125)

Oocyte; Plasma membrane; Phospholipid; Sphingomyelin; *N*-methylation; (*Rana pipiens*) (Morrill, G.A. (1224) 589)

Progesterone receptor
Mineralocorticoid receptor; Glucocorticoid receptor; Mouse mammary tumor virus; Transcription activation (Couette, B. (1219) 607)

Progesterone receptor gene
Steroid hormone receptor gene; Intranuclear receptor gene; Sequence analysis; (Human) (Misrahi, M. (1216) 289)

Progress curve
Enzyme-catalyzed reaction; Transient-state kinetics; Enzyme; Coupled reaction (Duggleby, R.G. (1205) 268)

Progress kinetic curve
Dye-ligand chromatography; Affinity chromatography; (Human liver) (Rashkovetsky, L.G. (1205) 301)

Prokaryotic expression
Site-directed mutagenesis; Arachidonic acid; 12-Lipoxygenase; Iron-binding domain; Positional specificity; (Porcine) (Suzuki, H. (1210) 308)

Proliferation
IGF_1; TGF-β; Transferrin; Differentiation; Arachidonic acid; Phospholipid release (Wikiel, H. (1211) 161)

Cell cycle; G_1; Insulin; Insulin-like growth factor; Daidzein; Casein kinase 2; MAP2 kinase (Higashi, K. (1221) 29)

Vitamin D; Type II cell; PDGF; Alveolar epithelium (Edelson, J.D. (1221) 159)

Aminothiol; Protein kinase C; 2′,7′-Dichlorofluorescin; Peroxidase; (Human); (T cell) (Jeitner, T.M. (1223) 15)

Proline
Thermodynamic nonideality; Compatible solute; Excluded volume (Jones, G.P. (1201) 37)

Proline dehydrogenase
Enzyme inhibition; Mechanism-based inhibition; Mitochondrion; (*G. morsitans*); (Rat liver) (Tritsch, D. (1202) 77)

Proline transport
Photosensitization; Singlet oxygen; Plasma membrane; Photodynamic therapy; Membrane potential; Glucose transport; 5′-Nucleotidase (Kochevar, I.E. (1196) 172)

Prolonged-nursing
Small intestine; Glycoprotein; Fucosylation; Suckling; Weaning; Dietary fiber (Tardy, F. (1201) 41)

Prolyl-endopeptidase
Peroxisome; Peroxisomal targeting signal; Cross-linking (Fransen, M. (1201) 157)

Prolyl hydroxylase
Magnesium lithospermate; Collagen hydroxylation; Medicinal herb; Lysyl hydroxylase (Shigematsu, T. (1200) 79)

Prolyl oligopeptidase
Endogenous inhibitor; Polyamine; Regeneration (Rat liver) (Yamakawa, N. (1199) 279)

Promoter
TFIID; Initiator; In vitro transcription; DNase I footprinting (Wang, J.C. (1216) 73)

RNA; Actin; Transcription; Antisense RNA; Transformation vector (Knecht, D. (1216) 105)

Glycine-rich protein; Ribonucleoprotein; Tissue-specific expression; (Plant); (*B. napus*) (Bergeron, D. (1216) 123)

Connexin32; Gene regulation; Enhancer; DNA-binding protein; Luciferase assay (Bai, S. (1216) 197)

TOL; mRNA structure; (*Pseudomonas*) (Marqués, S. (1216) 227)

Thymidylate synthase; DNA-binding factor; Regulatory sequence; Fibroblast cell; HeLa cell; (Human) (Horie, N. (1216) 409)

Glucose-6-phosphate dehydrogenase; PCR; (Rat) (Rank, K.B. (1217) 90)

Phospholipase A_2; Cytosol; Arachidonic acid pathway; Nucleotide sequence (Tay, A. (1217) 345)

Transcription factor; Initiator; In vitro transcription; DNAase I footprinting (Wang, J.C. (1218) 308)

Run-off transcript; Bacteriophage S13; Transcription (Ringuette, M.J. (1218) 331)

DNase I footprinting; Bacteriophage S13; Exonuclease III (Arquint, M. (1218) 339)

Nucleotide sequence; Heat-inducible hsp70 gene; Cloning; (Rat) (Lisowska, K. (1219) 64)

tRNA operon; rRNA gene, 5S; Sequence; (Lactic acid bacterium) (Nilsson, D. (1219) 141)

Vitronectin receptor; Integrin; α_v gene; DNA sequence (Donahue, J.P. (1219) 228)

Gene expression; Chloramphenicol acetyltransferase; Elastin (Manohar, A. (1219) 233)

Carnitine; Insulin (Montermini, L. (1219) 237)

Sp1; LRP; NRF-1; Enhancer (Gaëta, B.A. (1219) 307)

Tumor necrosis factor; Transcription factor; (Human) (Krämer, B. (1219) 413)

N-*ras*, proto-oncogene; Multiple; Expression (Jeffers, M. (1219) 623)

GM2 gangliosidosis; Regulation; mRNA quantitation; (Mouse) (Triggs-Raine, B.L. (1227) 79)

Promoter activity
Lipoprotein lipase gene; 5′ Flanking sequence; *cis*-acting regulatory element; Synergistic effect; (Avian) (Lu, S.-C. (1216) 375)

Promoter deletional analysis
Nitric oxide synthase; Gene structure; Transcriptional regulation; (Bovine aortic endothelial cell) (Venema, R.C. (1218) 413)

Promoter sequence
Prostatic acid phosphatase; Androgen regulation; Cosmid clone; (Prostatic cancer cell) (Banas, B. (1217) 188)

DNA sequence; Aldehyde dehydrogenase; (Rat) (Shaw, P.M. (1218) 242)

Propeptide
Collagen type V; Bone; Skin; Amino-acid sequence (Niyibizi, C. (1203) 304)

Serine proteinase; Carboxypeptidase; Zymogen structure; Catalytic triad; Diisopropylfluorophosphate; (Yeast) (Sørensen, S.O. (1205) 289)

Collagen; Nucleotide sequence; Amino acid sequence; (Mouse) (Fenton, S.P. (1216) 469)

Prosome
cDNAloning; Proteasome; HsN3; HsC7-I; HsC10-II; (Human) (Nothwang, H.G. (1219) 361)

Prostacyclin (PGI_2)
Receptor; Cloning (Sasaki, Y. (1224) 601)

Prostacyclin production
Cultured heart cell; Phospholipase C; Cell injury (Pinson, A. (1211) 283)

Prostaglandin
Short-chain dehydrogenase; Site-directed mutagenesis; (Human placenta) (Ensor, C.M. (1208) 151)

Isoprostane; Eicosanoid; Lipid peroxidation; Free radical (Morrow, J.D. (1210) 244)

Turbot; Astrocyte; Primary culture; Polyunsaturated fatty acid (Bell, J.G. (1211) 335)

Cyclooxygenase-1; Cyclooxygenase-2; Osteoblast; Signal transduction (Takahashi, Y. (1212) 217)

Interleukin 1; Protein kinase A; Protein kinase C; Osteoblast; (Mouse) (Iitaka, M. (1221) 78)

Protein kinase C; Arachidonic acid; EGF receptor; (Chinese hamster ovary cell) (Clark, S. (1224) 221)

Methotrexate; Liposome; Cytokine; Macrophage; (Rat) (Williams, A.S. (1225) 217)

Prostaglandin B_1
Ischemia; Tri-Calciphor; Mitochondrion; Calcium ionophore; Calcium (Uribe, S. (1225) 144)

Prostaglandin D_2 11-ketoreductase
3α-Hydroxysteroid dehydrogenase; Dihydrodiol dehydrogenase; Liver; (Human) (Ohara, H. (1215) 59)

Prostaglandin E_2
PAF; Autocrine; Inositol 1,4,5-trisphosphate; cyclic AMP; Macrophage (Asmis, R. (1224) 295)

5,6-*trans*-Prostaglandin E_2
Plasminogen activation; Urokinase; Streptokinase; Fibrinolysis (Urano, T. (1205) 258)

Prostaglandin formation
Phosphatidylcholine; Arachidonic acid content; Dietary oil; Clofibric acid; Liver; Kidney; (Rat) (Kawashima, Y. (1210) 187)

Prostaglandin H_2
Platelet; Thromboxane A_2; Receptor; Phosphorylation (Okwu, A.K. (1221) 83)

Prostaglandin metabolism
Inflammation; PGH synthase; Cyclooxygenase; Baculovirus; Gene expression; Recombinant DNA; DNA (Barnett, J. (1209) 130)

Prostanoid IP receptor
Adenosine A_2 receptor; Guanine nucleotide binding protein; Desensitization; Protein kinase A; Protein kinase C (Krane, A. (1206) 203)

Prostatic acid phosphatase
Androgen regulation; Cosmid clone; Promoter sequence; (Prostatic cancer cell) (Banas, B. (1217) 188)

Protamine
Sperm; Phosphorylation; Mass spectrometry (Chirat, F. (1203) 109)

Protease-protease inhibitor complex
Familial Alzheimer's disease; β/A4-amyloid; Lymphoblastoid cell; Chymotrypsin-type serine protease (Matsumoto, A. (1225) 304)

Proteasome
Multicatalytic proteinase; Chymotrypsin-like peptidase activity; Diisopropyl fluorophosphate; Cylindrical protein; Erythrocyte membrane (Khan, M.T. (1209) 215)

cDNAloning; Prosome; HsN3; HsC7-I; HsC10-II; (Human) (Nothwang, H.G. (1219) 361)

Proteasome subunit
cDNA cloning; Northern blot analysis; Coordinated expression; (*X. laevis*) (Fujii, G. (1216) 65)

Protection study
Glutamate dehydrogenase; Thiol modification; Ellman's reagent; DTNB; Dissociation constant (Basso, L.A. (1209) 222)

Protective protein
Galactosialidosis; β-Galactosidase; Neuraminidase; Cathepsin A; Mutation (Okamura-Oho, Y. (1225) 244)

Protein
Nucleic acid; DNA; Polysaccharide; Cell envelope; Cytoplasmic membrane; ATP; Phosphate potential; Protonmotive force (Palmen, R. (1183) 417)

Neuropeptide; NMR; Structure; Prejunctional receptor (Barden, J.A. (1206) 191)

Brain; Phospholipase C-α; Protein interaction (Tompkins, T.A. (1206) 208)

Protein 4.1
Calmodulin; Band 3; Glycophorin; Erythrocyte membrane (Lombardo, C.R. (1196) 139)

14-3-3 protein
Isoform-specific antibody; PKC inhibitor; (Brain); (Chicken) (Patel, Y. (1222) 405)

Protein, 67 kDa
Isoprenylation; cDNA sequence; Gene expression (Asundi, V.K. (1217) 257)

Protein acylation
Myristoylation, *N*-; Palmitoylation; Lymphocyte (Nadler, M.J.S. (1213) 100)

Proteinase
ATPase, Na^+/K^+-; Cathepsin D; Calpain; Multicatalytic proteinase; Lysosome; Oxidant (Zolotarjova, N. (1192) 125)

Calpain; Cloning; Gene expression; (Rat) (DeLuca, C.I. (1216) 81)

Vitamin D; Calcium; Metalloendopeptidase; mRNA; Chorioallantoic membrane; (Avian) (Elaroussi, M.A. (1217) 1)

cDNA sequence; Metalloendopeptidase; Penicillolysin; (*Penicillium*) (Matsumoto, K. (1218) 469)

Proteinase inhibitor; Inhibition kinetics; Chymotrypsin inhibitor; Barley (Greagg, M.A. (1222) 179)

Proteinase inhibitor; Liver; Phospholipase; Calcium; Protein kinase C; Leupeptin; (Hepatocyte); (Rat) (Benistant, C. (1223) 84)

Proteinase inhibition
Placental protein; Molecular complex; Glycoprotein; Proteoglycan (Oxvig, C. (1201) 415)

Proteinase inhibitor
Inhibitory property; Primary structure; Subtilisin inhibitor-like protein; (*S. cacaoi*) (Kojima, S. (1207) 120)

Trypsin inhibitor; tPA inhibitor; Gene synthesis; (*Erythrina*) (Teixeira, A.V. (1217) 16)

Inter-α-trypsin inhibitor; Multigene family; Gene sequence; Polymerase chain reaction (Diarra-Mehrpour, M. (1219) 551)

Cell proliferation; Urinary trypsin inhibitor; Mitogen; Growth inhibitor; Cell-surface proteinase; (Human) (Perry, J.K. (1221) 145)

Inhibition kinetics; Proteinase; Chymotrypsin inhibitor; Barley (Greagg, M.A. (1222) 179)

Proteinase; Liver; Phospholipase; Calcium; Protein kinase C; Leupeptin; (Hepatocyte); (Rat) (Benistant, C. (1223) 84)

Cartilage; Chondrocyte; Cytokine; Arthritis; Plasminogen activator (Campbell, I.K. (1226) 277)

α_1-Proteinase inhibitor
Proteolysis; Oxidation; Metalloproteinases; Metastasis; Inflammation (Zhang, Z. (1199) 224)

Proteinase inhibitor domain
Amyloid β-protein precursor; Anticoagulant (Van Nostrand, W.E. (1209) 165)

Proteinase treatment
3β-Hydroxysteroid; Membrane topology; Microsome; Immunoblotting; Electrophoresis; (Human placenta) (Alvarez, C.I. (1207) 102)

Protein association
Sodium–calcium ion exchange; Photoreceptor; Rod outer segment; Vesicle sidedness; (Bovine) (Huppertz, B. (1189) 119)

NMR, ^{3}H-; Chymotrypsin; Serine proteinase; Protein dynamics (O'Connell, T.M. (1208) 171)

Protein biosynthesis
Elongation factor 1; Subunit interaction; (Rice) (Ejiri, S.-i. (1217) 266)

Protein characterization
Ferredoxin; Pulse radiolysis; Ruthenium modification (Blue-green algae) (Lloyd, E. (1202) 113)

Factor C; Protein purification; Amoebocyte; (*C. rotundicauda*) (Ding, J.L. (1202) 149)

2,3-Dihydroxyphenylpropionate 1,2-dioxygenase; Protein purification; Overexpression; (*E. coli*) (Bugg, T.D.H. (1202) 258)

Myosin light-chain phosphatase; Myosin dephosphorylation; Smooth muscle; Affinity chromatography; Protein purification; (Turkey gizzard) (Nowak, G. (1203) 230)

NAD(P)H:quinone oxidoreductase gene; Antioxidant responsive element; Glutathione *S*-transferase gene; Competition assay; Gel mobility shift assay; (Human); (HeLa cell) (Wang, B. (1219) 645)

Protein conformation
Front-face fluorescence; Oil-in-water emulsion; Bovine Serum Albumin; Adsorption (Castelain, C. (1199) 59)

NMR, ^{1}H-; β-Casein; Peptide assignment (Wahlgren, N.M. (1202) 121)

PAI-1; Serine proteinase inhibitor; Fluorescence spectroscopy; Circular dichroism; Ultraviolet spectroscopy (Vaughan, D.E. (1202) 221)

Glucoamylase G2; Circular dichroism; Infrared spectroscopy (Urbanova, M. (1203) 290)

Cytochrome-*c* oxidase; Time-resolved fluorescence; Tryptophan; (Bovine heart) (Das, T.K. (1209) 227)

p53 suppressor; Metal ion; (Human) (Coffer, A.I. (1209) 279)

Antithrombin; Factor Xa; Protein inhibition; Arginine; Heparin activation; Affinity chromatography (Najjam, S. (1225) 135)

Protein conformational change
Sarcoplasmic reticulum; ATPase, Ca^{2+}-; Calcium ion binding; Protein fluorescence; FTIR; Caged compound (Georg, H. (1188) 139)

Protein degradation
Photosystem II complex; Photoinhibition; Pigment photobleaching; Singlet oxygen (Mishra, N.P. (1186) 81)

Kidney proximal tubule; Labeling; Histochemistry (Evans, P.J. (1221) 243)

Protein denaturation
Bifunctional inhibitor; Amylase/trypsin inhibitor; Inhibition kinetics; (*E. coracana*) (Alagiri, S. (1203) 77)

Deoxyribonuclease; Hepatopancreas; Sodium dodecyl sulfate; Protein renaturation; (Shrimp) (Lin, J.-L. (1209) 209)

Protein dephosphorylation
Glucagon; Okadaic acid; Spermine; (Rat hepatocyte) (Aggarwal, S.R. (1224) 311)

Protein disulfide isomerase
Reticuloplasmin; Calreticulin; Mammary gland; Milk lipid globule (Ghosal, D. (1200) 175)

Association; Dissociation; Subunit interaction (Yu, X.-c. (1207) 109)

Protein–DNA interaction
AraC protein; Gene expression; Regulatory circuit; Transfection (Raman, V. (1219) 441)

Protein dynamics
NMR, ^{3}H-; Chymotrypsin; Serine proteinase; Protein association (O'Connell, T.M. (1208) 171)

Ribonuclease T_1; Fluorescence quenching; Quenching model (Somogyi, B. (1209) 61)

Biocatalysis; Protein function; Charge-transfer reaction; Molecular probe; Protein photochemistry; Excited state (Demchenko, A.P. (1209) 149)

Protein engineering
Firefly luciferase; Bioluminescence; C-terminus; Luciferase; (Firefly) (Sala-Newby, G.B. (1206) 155)

Calcium binding; Mutagenesis; Protein kinase; Calmodulin; Molecular dynamics (Lukas, T.J. (1223) 341)

Protein expression
APS-kinase; APS-sulfotransferase; cDNA sequence; Gene function; Plastidic protein; (*Arabidopsis thaliana*) (Arz, H.E. (1218) 447)

Protein fluorescence
Sarcoplasmic reticulum; ATPase, Ca^{2+}-; Calcium ion binding; Protein conformational change; FTIR; Caged compound (Georg, H. (1188) 139)

Phospholipase A_2; Lysolecithin binding; Lysolecithin hydrolysis (Baker, B.L. (1211) 289)

Protein folding
Protein import; Mitochondrion; Cytochrome biogenesis; Chaperone; Import receptor (Schwarz, E. (1187) 270)

Nucleotide sequence; Peptidyl-prolyl *cis-trans* isomerase; Cyclophilin A; Amino acid sequence; (*Arabidopsis*) (Hayman, G.T. (1219) 536)

Protein function
Biocatalysis; Protein dynamics; Charge-transfer reaction; Molecular probe; Protein photochemistry; Excited state (Demchenko, A.P. (1209) 149)

Protein import
Protein processing; Precursor protein; Mitochondrial processing peptidase; Ubiquinol cytochrome *c* oxidoreductase complex (Eriksson, A.C. (1186) 221)

Mitochondrion; Cytochrome biogenesis; Chaperone; Import receptor; Protein folding (Schwarz, E. (1187) 270)

Catalase; Peroxisome; Zellweger syndrome; Monoclonal antibody (Middelkoop, E. (1220) 15)

Protein inhibition
Antithrombin; Protein conformation; Factor Xa; Arginine; Heparin activation; Affinity chromatography (Najjam, S. (1225) 135)

Protein interaction
Brain; Phospholipase C-α; Protein (Tompkins, T.A. (1206) 208)

Protein isoprenylation
Squalestatin 1; Squalene synthase; Ubiquinone; Dolichol; Cholesterol (Thelin, A. (1215) 245)

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Betaine; Glycerol; Oxygen evolution; (*Ph. laminosum*) (Stamatakis, C. (1183) 333)

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Photosystem II; Oxygen evolution; Etioplast; Chloroplast; (Barley) (Hashimoto, A. (1183) 397)

Protein kinase
Protein phosphorylation; Redox sensor; Cytochrome b_6f; Redox titration; Plastosemiquinone; (Chloroplast thylakoid) (Silverstein, T. (1183) 215)

Photosynthesis; Light-harvesting complex; Reaction center; Carotenoid; Protein phosphorylation; (*R. rubrum*) (Ghosh, R. (1184) 28)

Photosynthesis; Light-harvesting complex; Protein phosphorylation; (*R. rubrum*) (Ghosh, R. (1184) 37)

Photosystem II; Phosphorylation; LHC II; Intact chloroplast; Protein phosphatase (Ebbert, V. (1187) 335)

Synthetic phosphopeptide; Chloroplast thylakoid; LHC II; Phosphoprotein phosphatase; Protein phosphatase inhibitor (Cheng, L. (1188) 151)

Sugar transport; Catabolite inactivation; cyclicAMP-dependent protein kinase; (*S. cerevisiae*) (Riballo, E. (1192) 143)

Galactosyltransferase; Cell proliferation; Salivary gland; Cancer (Kerr, M. (1218) 375)

Protein synthesis; RNA-binding protein; cDNA; (Rat) (Mellor, H. (1219) 693)

Sphingosylphosphorylcholine; Protein phosphorylation; Cytosol (Pushkareva, M.Yu. (1221) 54)

Phosphopeptide; Protein phosphatase; Protein tyrosine phosphatase; Protein phosphorylation; Peptide (Pinna, L.A. (1222) 415)

cyclic AMP-dependent protein kinase; Phosphorylation; RIβ; cyclic AMP; (Testis) (DeManno, D.A. (1222) 501)

Poly(ADP-ribose)polymerase; Phorbol myristate acetate; Phytohemagglutinin; Signal transduction; Phosphorylation; (Lymphocyte) (Bauer, P.I. (1223) 234)

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Calcium binding; Mutagenesis; Calmodulin; Molecular dynamics; Protein engineering (Lukas, T.J. (1223) 341)

cyclic AMP-dependent protein kinase; Dietary fat; Dietary fiber; Cell proliferation; (Rat colon) (Aukema, H.M. (1224) 51)

Protein kinase A
Prostanoid IP receptor; Adenosine A_2 receptor; Guanine nucleotide binding protein; Desensitization; Protein kinase C (Krane, A. (1206) 203)

Interleukin 1; Prostaglandin; Protein kinase C; Osteoblast; (Mouse) (Iitaka, M. (1221) 78)

cyclic AMP; Retinoic acid; Retinoic acid nuclear receptor; G protein; Teratocarcinoma differentiation; (Human) (Kurie, J.M. (1222) 88)

Parathyroid hormone; Sodium/phosphate cotransport; cyclic AMP; Calcium ion, intracellular concentration; Protein kinase C; Myelin basic kinase; (Kidney cell); (Opossum) (Quamme, G. (1223) 107)

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Insect cell line; Phorbol ester; Diacylglycerol; Phospholipid; H-7; (*C. fumiferana*) (Gupta, J. (1203) 210)

Prostanoid IP receptor; Adenosine A_2 receptor; Guanine nucleotide binding protein; Desensitization; Protein kinase A (Krane, A. (1206) 203)

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Cannabinoid; Δ^9-Tetrahydrocannabinol; Marijuana; Phorbol-12,13-dibutyrate; (Forebrain) (Hillard, C.J. (1220) 163)

Neuroparsin; 5-Hydroxytryptamine; Calcium ion, cytosolic free; cyclic AMP; cyclic GMP; (Rectal cell); (African locust) (Fournier, B. (1220) 181)

Parathyroid hormone-related protein; cyclic AMP; Second messenger pathway; (Human lung) (Emly, J.F. (1220) 193)

Lipocortin I; Phosphorylation; Cytosol; Plasma membrane; Permeabilization; (Pig granulocyte) (Farkas, G. (1220) 315)

Interleukin 1; Prostaglandin; Protein kinase A; Osteoblast; (Mouse) (Iitaka, M. (1221) 78)

Enzyme activation; Fetal type II cell (Scott, J.E. (1221) 297)

Cholecystokinin; cyclic AMP; Calcium ion; Bombesin (Chang, C.H. (1221) 339)

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Phospholipase D; Signal transduction (McKinnon, M. (1222) 109)

Protein kinase C inhibitor; Signal transduction; cDNA (Simpson, G.G. (1222) 306)

Regulatory volume increase; Regulatory volume decrease; Sodium/potassium/chloride cotransport (Larsen, A.K. (1222) 477)

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Proteinase; Proteinase inhibitor; Liver; Phospholipase; Calcium; Leupeptin; (Hepatocyte); (Rat) (Benistant, C. (1223) 84)

Parathyroid hormone; Sodium/phosphate cotransport; cyclic AMP; Calcium ion, intracellular concentration; Protein kinase A; Myelin basic kinase; (Kidney cell); (Opossum) (Quamme, G. (1223) 107)

Signal transduction; Neomycin; Medium acidification; (*S. cerevisiae*) (Brandão, R.L. (1223) 117)

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Fatty acid; Fibroblast; Fatty acid oxidation defect; Acyl-CoA ester; (Human) (Nesher, M. (1221) 66)

Protein kinase C inhibition
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NADPH oxidase activity; p47 phosphorylation; Superoxide production; Opsonized zymosan; (Neutrophil); (Human) (Levy, R. (1220) 253)

Protein kinase C; Signal transduction; cDNA (Simpson, G.G. (1222) 306)

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Protein kinase inhibitor
Protein kinase C substrate; Two-dimensional gel electrophoresis; Phorbol ester; Staurosporine; Anterior pituitary gland; (Rat) (Simpson, J. (1220) 69)

Autocrine motility factor; Cell motility; Signal transduction (Kanbe, K. (1222) 395)

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Magainin; Alamethicin; Lipid bilayer; Cytolysis (Ludtke, S.J. (1190) 181)

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Protein–liposome interaction
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Protein–membrane interaction
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Protein methylation
Calmodulin; Calmodulin *N*-methyltransferase; Trimethyllysine; Protein methylase III; (*Paramecium*) (Pech, L.L. (1199) 183)

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Protein modification
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Protein motion
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Protein–nucleic acid interaction
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Protein oxidation
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Protein phosphatase
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cDNA sequence; Amino acid sequence; mRNA alternative splicing; Chromosomal localization; (Human) (Barker, H.M. (1220) 212)

Phosphopeptide; Protein tyrosine phosphatase; Protein phosphorylation; Protein kinase; Peptide (Pinna, L.A. (1222) 415)

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Protein phosphatase inhibitor
Synthetic phosphopeptide; Chloroplast thylakoid; LHC II; Phosphoprotein phosphatase; Protein kinase (Cheng, L. (1188) 151)

Protein phosphorylation
Redox sensor; Cytochrome b_6f; Protein kinase; Redox titration; Plastosemiquinone; (Chloroplast thylakoid) (Silverstein, T. (1183) 215)

Photosynthesis; Light-harvesting complex; Reaction center; Carotenoid; Protein kinase; (*R. rubrum*) (Ghosh, R. (1184) 28)

Photosynthesis; Light-harvesting complex; Protein kinase; (*R. rubrum*) (Ghosh, R. (1184) 37)

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Oncogene; Gene structure; Gene expression (Moran, T.V. (1216) 9)

Sphingosylphosphorylcholine; Protein kinase; Cytosol (Pushkareva, M.Yu. (1221) 54)

Iris sphincter smooth muscle; IP_3 5-phosphatase; IP_1 monophosphatase; Calcium; Lithium; Okadaic acid; Muscle relaxation (Wang, X.-L. (1222) 27)

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Phosphopeptide; Protein phosphatase; Protein tyrosine phosphatase; Protein kinase; Peptide (Pinna, L.A. (1222) 415)

Protein photochemistry
Biocatalysis; Protein dynamics; Protein function; Charge-transfer reaction; Molecular probe; Excited state (Demchenko, A.P. (1209) 149)

Protein processing
Precursor protein; Mitochondrial processing peptidase; Protein import; Ubiquinol cytochrome *c* oxidoreductase complex (Eriksson, A.C. (1186) 221)

Protein-protein complex
Nitrite reductase; Ferredoxin; Oxidation-reduction titration; Cyclic voltammetry; Laser flash photolysis; (Spinach) (Hirasawa, M. (1185) 336)

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Plasminogen activator inhibitor 1; Vitronectin; Fibrinolysis (Sigurdardottir, O. (1208) 104)

Velocity sedimentation; Reconstitution; Chemotaxis; G protein; Chemoattractant receptor (Bommakanti, R.K. (1209) 69)

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VDAC; Mitochondrion; VDAC modulator; Membrane channel; Intermembrane space; (Calf); (*N. crassa*) (Liu, M.Y. (1185) 203)

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2,3-Dihydroxyphenylpropionate 1,2-dioxygenase; Protein characterization; Overexpression; (*E. coli*) (Bugg, T.D.H. (1202) 258)

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Protein solubility
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Protein stability
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Protein synthesis
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Melittin; Calcium ionophore A23187; Phorbol myristate acetate; Epidermal growth factor; Protein tyrosine kinase; Fibroblast; (Human) (Errasfa, M. (1222) 471)

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Proteoglycan characterization
Proteoglycan; Extraction; Chromatography; Amino acid composition; (Bovine muscle) (Eggen, K.H. (1204) 287)

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Proteolytic enzyme
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NADH:ubiquinone reductase; Complex I; Ubiquinone; Respiratory inhibitor (Degli Esposti, M. (1187) 116)

Proton release
Photosystem II; Oxygen evolution; Absorption transient at 320 nm; Ultraviolet; pH dependence (Lübbers, K. (1183) 210)

Photosystem II; Oxygen evolving complex; Tyrosine Z; Electrochromism (Rappaport, F. (1184) 178)

Proton transfer
Cytochrome *c* oxidase; Flash photolysis; Ligand; Electron transfer; Conformation change (Hallén, S. (1184) 207)

Carbonic anhydrase; Mutagenesis; Histidine; Enzyme kinetics (Liang, Z. (1203) 142)

Proton translocation
Bacteriorhodopsin; Retinal protein; Retinal isomerization; Proton pump; Photocycle; (Halobacteria) (Lanyi, J.K. (1183) 241)

Electrochemical proton potential; Menaquinone; Quinone; Electron transport; (*Wolinella succinogenes*) (Geisler, V. (1184) 219)

Cytochrome oxidase; Proton pump; (*Paracoccus*) (Raitio, M. (1186) 100)

Respiratory oxidase; Proton pump; Histidine cycle (Wikström, M. (1187) 106)

Proton transport
ATPase, H^+-; pH gradient; Fluorescent amine (Rottenberg, H. (1183) 161)

ATPase; Inhibition; Fluoroaluminate; (Yeast) (Rapin-Legroux, C. (1184) 127)

Proton uptake
pH gradient; Light stress; Photoinhibition; Photophosphorylation; Uncoupling; (Chloroplast) (Tjus, S.E. (1183) 315)

***jun* Proto-oncogene**
AP-1; *Deb-A* gene; (*Drosophila*) (Wang, G.L. (1216) 94)

Proto-oncogene expression
PDGF; Ito cell; PGE; Raf; Mitogenesis (Beno, D.W.A. (1222) 292)

Protoplast
UsnRNA; Gene expression; Pseudogene; (Maize) (Leader, D.J. (1219) 145)

Protoporphyrin
Microsome; Lipid peroxidation; Photooxidation; Bilirubin; Porphyrias (Williams, M. (1211) 310)

Protoporphyrin IX
Horseradish peroxidase; Peroxidase; Fluorescence; Polarization (Brunet, J.E. (1203) 171)

Protozoon
Hydrogenosome; Ferredoxin; cDNA; Protein sequence; Anaerobic free living protozoon; (*P. lanterna*) (Brul, S. (1183) 544)

Synthetic peptide; Glycosylation; Cell free system; Parasite (Dieckmann-Schuppert, A. (1199) 37)

Proximal tubule
α-Aminoisobutyric acid transport; Sodium ion dependent uptake; Proton dependent influx; (Human kidney cells) (Jessen, H. (1190) 279)

Brush-border membrane; Sodium cotransport; Phosphate transport; (Superficial rat renal cortex); (Juxtamedullary rat renal cortex) (Yusufi, A.N.K. (1191) 117)

Primary culture; Zinc; Apical; Basolateral; Uptake; Efflux; (Rabbit kidney cell) (Gachot, B. (1191) 291)

Taurine; β-Alanine; Sodium ion dependent uptake; Anion dependence; Stoichiometry; (Human); (Kidney cell) (Jessen, H. (1194) 44)

Epithelial polarity; Cytoskeleton; Ischemia; Microvillous inclusion disease; Polycystic kidney disease (Leiser, J. (1225) 1)

psaA
Photosystem I; Reaction center protein; *psaB*; Cyanobacterium, filamentous; (*Anabaena variabilis* ATCC 29413) (Nyhus, K.J. (1185) 247)

psaB
Photosystem I; Reaction center protein; *psaA*; Cyanobacterium, filamentous; (*Anabaena variabilis* ATCC 29413) (Nyhus, K.J. (1185) 247)

***psb*C**
DNA sequence; Chloroplast; Photosystem II; *psb*D; Transcription; (*E. gracilis*) (Orsat, B. (1218) 75)

***psb*D**
DNA sequence; Chloroplast; Photosystem II; *psb*C; Transcription; (*E. gracilis*) (Orsat, B. (1218) 75)

psbE
Photosystem II; Cytochrome; *psbF*; *trnM*; Green alga; Chloroplast genome; (*Chlamydomonas reinhardtii*) (Alizadeh, S. (1188) 439)

psbF
Photosystem II; Cytochrome; *psbE*; *trnM*; Green alga; Chloroplast genome; (*Chlamydomonas reinhardtii*) (Alizadeh, S. (1188) 439)

Pseudogene
UsnRNA; Gene expression; Protoplast; (Maize) (Leader, D.J. (1219) 145)

Pseudo-hevein
Hevein; Primary structure; Ion-spray mass spectrometry; (*H. brasiliensis*) (Soedjanaatmadja, U.M.S. (1209) 144)

P_1 site
Protein sequence; Trypsin/chymotrypsin inhibitor; Positional identity; Kunitz-type inhibitor; (Giant taro (*A. macrorrhiza*)) (Argall, M.E. (1204) 189)

P site
tRNA–ribosome interaction; tRNA (Nekhai, S.A. (1218) 481)

P site binding
$tRNA^{Phe}$ anticodon arm; Ribosome; (*E. coli*) (Nekhai, S.A. (1218) 21)

***reg*/PSP gene family**
reg; Regenerating gene; Gene structure; cDNA; Expression; (Human) (Moriizumi, S. (1217) 199)

p53 suppressor
Protein conformation; Metal ion; (Human) (Coffer, A.I. (1209) 279)

Psychrophilic
Chymotrypsinogen; Serine proteinase; cDNA nucleotide sequence; (Atlantic cod) (Guðmundsdóttir, Á. (1219) 211)

PTH receptor desensitization
Parathyroid hormone, PTH; Perifusion culture; (Osteosarcoma cell, SaOS-2); (Human) (Bergwitz, C. (1222) 447)

Ptolemeic mummy
Zinc-protein; Alkaline phosphatase; Archaeological biochemistry (Weser, U. (1208) 186)

PTS
L-Sorbose; *sor* operon; Operon sequence; (*K. pneumoniae*) (Wehmeier, U.F. (1208) 348)

PTX
Endothelin; Parathyroid hormone; UMR-106 cell; PLC inhibitor; Intracellular calcium; Inositol phosphate (Tatrai, A. (1224) 575)

Pulmonary surfactant
CTP:phosphocholine cytidylyltransferase (EC 2.7.7.15); cyclic AMP-dependent protein kinase; Fetal type II cell; Lung; (Rat) (Zimmermann, L.J. (1211) 44)

Parathyroid hormone; Parathyroid hormone-related protein; cyclic AMP; Inositol phosphate; Lung development; (Rat) (Rubin, L.P. (1223) 91)

Pulmonary surfactant protein
SP-A; SP-D; Amniotic fluid; Fetal membrane; Preterm labour; Chorioamniotic; (Human) (Miyamura, K. (1210) 303)

Pulse-chase
Chloramphenicol; Clp proteinase; Photoinhibition; Photosynthesis; Rifampicin; (*L. gibba*) (Gong, H. (1188) 422)

Pulsed electric field
NMR, ^{31}P-; Lipid bilayer (Osman, P. (1195) 197)

Pulse radiolysis
Ferredoxin; Protein characterization; Ruthenium modification (Blue-green algae) (Lloyd, E. (1202) 113)

Copper thionein; Oxygen radical; Reduced oxygen species; Radical scavenging; Oxidative stress (Felix, K. (1203) 104)

Purification
ATP/ADP carrier; Detergent (Rojo, M. (1187) 360)

ATPase, F_0F_1-; ATPase, unstable; Detergent; (*Vibrio parahaemolyticus*) (Ogawa, W. (1188) 69)

Mitochondrion; Dicarboxylate carrier; Affinity chromatography; Malate dehydrogenase; (Rat liver) (Lançar-Benba, J. (1190) 213)

Nitric oxide; Nitric oxide synthase; Platelets; Calmodulin (Muruganandam, A. (1200) 1)

Cytochrome *P*-450; Cytochrome *P*-450 1A2; Monkey; Dioxin (Kastner, M. (1200) 7)

Human ferrochelatase; Heme synthesis; Expression; (*E. coli*) (Okuda, M. (1200) 123)

Oligosaccharide specificity; Immunogenecity; Circular dichroism; (*V. villosa* lectin) (Qian, R. (1201) 61)

Eosinophil; Major basic protein; Antibacterial activity; Active fragment; (Guinea pig) (Hashimoto, Y. (1203) 236)

Aminopeptidase; Characterization; Metalloenzyme; Apoenzyme reactivation; Deglycosylation; (*Thunnus albacares*) (Hajjou, M. (1204) 1)

Microsomal epoxide hydrolase; Characterization; (Adrenal gland); (Human) (Papadopoulos, D. (1206) 253)

Cytochrome *P*-450; Development (Cresteil, T. (1208) 111)

Plasma protein; Kallikrein; Complement system; (Human) (Pu, X.P. (1208) 338)

Phytoene dehydrogenase; Carotenoid; (*P. blakesleeanus*) (Fraser, P.D. (1212) 59)

arom protein; Expression; Ubiquitin; Domain; (Yeast) (Graham, L.D. (1216) 417)

DNA polymerase; DNA replication; Bacteriophage; Guanidine hydrochloride denaturation; (*E. coli*) (Zhu, W. (1219) 267)

Lung dipeptidase; Leukotriene; cDNA cloning; Ectoenzyme (An, S. (1226) 337)

Purine
Cloning; Nucleotide sequence; Guanylate; Development; (*D. melanogaster*) (Sifri, C.D. (1217) 103)

Purine nucleoside phosphorylase
Deoxyguanosine kinase; dGTP; Mouse model (Snyder, F.F. (1227) 33)

Purine nucleotide
Thermogenin; Sulfonate; GDP binding; Mitochondrion; Brown fat; (Hamster) (Nedergaard, J. (1185) 311)

ATP-diphosphohydrolase; Apyrase; Smooth muscle (Picher, M. (1200) 167)

Purine riboside
Inorganic phosphate uptake; Intracellular inorganic phosphate; Nucleotide catabolism; Nucleotide pool (Marcussen, M. (1194) 197)

Puromycin
Ethanol; Stimulatory GTP-binding regulatory protein; Gs; S49 murine lymphoma cell; Cycloheximide (Nakamura, J. (1209) 111)

Puromycin reaction
Spermine; Ribosomal peptidyltransferase; Ribosome; Peptide bond (Drainas, D. (1208) 55)

Purple bacterium
Photosynthesis; Light-harvesting complex; B875; Carotenoid; (*Rc. gelatinosus*) (Jirsakova, V. (1183) 301)

Energy transfer; Antenna; Reaction center; Energy trapping; (*C. vinosum*); (*C. tepidum*) (Kennis, J.T.M. (1188) 278)

Purple membrane
Fatty acid; Fatty acid synthetase; Acylated protein; Red membrane; (Archaebacterium) (Pugh, E.L. (1196) 38)

Membrane solubilization; Surfactant (Viguera, A.-R. (1196) 76)

Putative G protein-coupled receptor
Molecular cloning; PCR; (Rat); (Aorta smooth muscle) (Ishizaka, N. (1218) 173)

Putidaredoxin
Cytochrome *P*-450$_{cam}$; Arginine; Electron transfer; (*P. putida*) (Nakamura, K. (1207) 40)

Putrescine
Export; Polyamine; Ornithine (Hawel, III, L. (1222) 15)

Uptake; Brush-border membrane; Small intestine; Tumor; Polyamine; (Rat tissue) (Brachet, P. (1227) 161)

Pyrene excimer
Clathrin; Endocytosis; Coated vesicle; Uncoated vesicle; Membrane fluidity; Fluorescence anisotropy; Diphenylhexatriene (Liaubet, A. (1195) 164)

Pyrene-labeled phospholipid
Arachidonic acid; LDL apheresis; Diacylphosphatidylcholine; Diacylphosphatidylethanolamine; Apoprotein B; Phospholipid (Engelmann, B. (1196) 154)

Pyridazinone
Cyanobacterium; Photosynthesis; Photosystem II inhibition; Photochemical apparatus; Energy distribution (Srivastava, M. (1186) 1)

Pyridine nucleotide
Decay-associated spectrum; Flavin nucleotide; Photosynthesis; Plant phenolic (Cerovic, Z.G. (1188) 58)

Pyridoxal phosphate
Crystallins; Galactose; Glucose; Glycation; Lens (Ganea, E. (1226) 286)

Pyridoxal-5-phosphate
Glycerol dehydrogenase; Reactive lysine; Site-directed mutagenesis; (*B. stearothermophilus*) (Paine, L.J. (1202) 235)

Pyridyl analog of adenosylcobalamin
Adenosylcobalamin; Vitamin B_{12} coenzyme; Diol dehydratase; Diol dehydrase (Toraya, T. (1204) 169)

Pyrimidine base
DNA damage; Structure–function relationship (Miaskiewicz, K. (1218) 283)

Pyrimidine biosynthesis
Allostery; Multifunctional polypeptide; Plant metabolism (Bartlett, T.J. (1207) 187)

Pyrimidine-specific ribonuclease
Homology; Lactoferrin; Active site (Devi, A.S. (1205) 275)

Pyroglutamylglutamylprolineamide
Fertilization-promoting peptide; TRH-related peptide; Human prostate; Benign prostatic hyperplasia (Cockle, S.M. (1227) 60)

Pyrophosphatase (PPase)
ATPase; Archaebacterium; Plasma membrane; (*M. thermoautotrophicum*) (Roth, R. (1201) 271)

Pyrophosphate hydrolysis
Hydration; Nonadditive effect; Numerical simulation; Monte Carlo simulation; Phosphoanhydride bond (Saint-Martin, H. (1207) 12)

Pyruvate
Bivascular liver perfusion; Metabolic zonation; Gluconeogenesis; Lactate (Bracht, A. (1199) 298)

Sarcoplasmic reticulum; ATPase, Ca^{2+}-; Cytosolic phosphorylation potential; Ventricular myocardium; Caffeine; Ryanodine (Mallet, R.T. (1224) 22)

Pyruvate carboxylase
Mitochondrial enzyme; cDNA cloning; Nucleotide sequence; Amino acid sequence; Biotin (Wexler, I.D. (1227) 46)

Pyruvate dehydrogenase
Mitochondrion; Multi-enzyme complex; cDNA sequence; (*A. thaliana*) (Luethy, M.H. (1187) 95)

Pyruvate dehydrogenase complex
cDNA; Phosphorylation; RNAase protection; Somatic; (Testis) (Cullingford, T.E. (1216) 149)

Pyruvate kinase
Thymocyte; Aldolase; Glyceraldehyde-3-phosphate dehydrogenase; Hexokinase; Cell cycle (Netzker, R. (1224) 371)

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Q_{10}
Complex I; MPP^+; NADH dehydrogenase; NADH-Q oxidoreductase; Piericidin A; Rotenone; Ubiquinone (Singer, T.P. (1187) 198)

Q_{400}
Bicarbonate effect; Chlorophyll *a* fluorescence; Formate effect; Non-heme iron; Photosystem II (Stemler, A. (1183) 269)

QCR7
Transcription regulation; Carbon catabolite regulation; Ubiquinol cytochrome *c* oxidoreductase; APA2; (*K. lactis*) (Mulder, W. (1219) 719)

QCR8
Transcription regulation; Carbon catabolite repression; Ubiquinol cytochrome *c* oxidoreductase; FPS1; (*S. cerevisiae*); (*K. lactis*) (Mulder, W. (1219) 713)

Q-cycle
Chloroplast; Cytochrome *bf* complex; Electron transport; Plastoquinone; Semiquinone (Kramer, D.M. (1183) 72)

Chloroplast; Cytochrome *bf* complex; Cytochrome *b*; Midpoint potential; Thermodynamic property; Electron transport (Kramer, D.M. (1184) 193)

QSAR
Mitochondrion; Oxidant-induced reduction; Ubiquinol oxidation; Electron transport inhibition; Cytochrome *b*; (*R. rubrum*) (Oettmeier, W. (1188) 125)

Quantitative analysis
CP/MAS; NMR, solid state ^{13}C-; Melanin; 5,6-Dihydroxyindole-melanin; Auto-oxidation (Hervé, M. (1204) 19)

Quantum efficiency
Photoacoustic spectroscopy; Excitation transfer; State transition (Delosme, R. (1185) 56)

Quasi-elastic light scattering
Antineoplastic; Ether lipid; Lipid polymorphism; Small-angle X-ray scattering; X-ray scattering, small-angle (Maurer, N. (1192) 167)

Quaternary structure
Hemoglobin; Zinc effect; Dissociation; Oxygenation; (Earthworm) (Ochiai, T. (1203) 310)

Quenching
Hydroquinone; Singlet oxygen; Biological system (Mukai, K. (1183) 323)

Quenching model
Ribonuclease T_1; Fluorescence quenching; Protein dynamics (Somogyi, B. (1209) 61)

Quinolone
Coumarin; DNA Topoisomerases; Streptomycetes (Störl, K. (1199) 143)

Quinol oxidase
Cytochrome oxidase; Heme; EXAFS (Powers, L. (1183) 504)

Heme protein; Hemoglobin; Oxygen; Cytochrome; Globin (Poole, R.K. (1187) 226)

Quinone
Mitochondrion; Alternative pathway; Cytochrome *b*; Electron flux; Respiratory chain; (*C. parapsilosis*) (Guerin, M.G. (1184) 111)

Proton translocation; Electrochemical proton potential; Menaquinone; Electron transport; (*Wolinella succinogenes*) (Geisler, V. (1184) 219)

Photosystem II; Photosynthesis; Cyanobacterium; Non-heme iron; Reaction center; Iron (Vermaas, W. (1184) 263)

Superoxide dismutase; Catalase; DT-diaphorase; Norepinephrine; Oxygen radical (Linderson, Y. (1200) 197)

Quinone electron acceptor
Reaction center; Charge recombination; Electron transfer; Pigment-protein complex; Anoxygenic photosynthesis; (*E. mobilis*) (Leguijt, T. (1183) 292)

Quinone iron
Photosystem II; Tyrosine D^+; EPR, pulsed; Hole burning; Oxygen-evolving center (Kodera, Y. (1186) 91)

Quinone redox state
Photosystem II; Radical pair state; Time-resolved fluorescence; Photoinhibition (Vass, I. (1183) 388)

R

Racemase
2-Oxothiazolidine-4-carboxylic acid; 5-Oxoproline (Mochizuki, K. (1200) 27)

Racemization
D-Aspartic acid; Lens; Crystallin; Isomerization; (Human) (Fujii, N. (1204) 157)

RACE PCR
Major intrinsic protein (MIP); Channel forming integral protein (CHIP28); Osmotic water permeability; Amphibian urinary bladder; (*R. esculenta*) (Abrami, L. (1192) 147)

Radial autocorrelation function
Time-resolved small-angle X-ray diffraction; Blue membrane; Deionized purple membrane; Order–disorder transition; Dehydration (Wakatsuki, S. (1185) 160)

Radiation
Heparan sulfate; Chondroitin sulfate; Dermatan sulfate; Glycosaminoglycan; Endothelium; (Bovine aorta) (Pye, D.A. (1220) 266)

Radiation inactivation
Dopamine transporter; GBR-12935; (Canine brain membrane) (Milner, H.E. (1190) 185)

Radical
Nucleus; Peroxide; Tumour promoter; EPR; DNA (Greenley, T.L. (1226) 56)

Radical formation
Aldol condensation; Enzyme kinetics; Enzyme purification; HMG-CoA; Isoprenoid biosynthesis; (Radish); (Maize) (Weber, T. (1211) 85)

Radical pair mechanism
Photosynthesis; EPR; Electron spin polarization; Spin-lattice relaxation (Van den Brink, J.S. (1185) 177)

Radical pair state
Photosystem II; Time-resolved fluorescence; Photoinhibition; Quinone redox state (Vass, I. (1183) 388)

Radical scavenging
Copper thionein; Oxygen radical; Reduced oxygen species; Pulse radiolysis; Oxidative stress (Felix, K. (1203) 104)

Radioactive labelling
β-1,3-D-Glucan; Macrophage; Binding characteristic; Immunomodulator; (Mouse) (Konopski, Z. (1221) 61)

Radioimmunoassay
Selenoprotein; Monoclonal antibody; Immunoaffinity chromatography; Heparin agarose; (Human plasma) (Åkesson, B. (1204) 243)

Radiolabel
Hemoglobin; Liposome; Blood surrogate; Freeze-drying; NADH–cytochrome-b_5 reductase (Brandl, M. (1196) 65)

Radioligand binding
Gene expression; D_{2S}-dopamine receptor; Yeast (Sander, P. (1193) 255)

Radiolysis
Lysozyme; Hydroxyl radical; Free radical (Franzini, E. (1203) 11)

Raf
PDGF; Ito cell; PGE; Mitogenesis; Proto-oncogene expression (Beno, D.W.A. (1222) 292)

Raman spectroscopy
DSC; Mixed interdigitated acyl chain bilayer; 1-Stearoyl-2-capryl-*sn*-glycero-3-phosphocholine; 1-Stearoyl-2-capryl-*sn*-glycero-3-phospho-*N*-trimethylpropanolamine; Phosphatidylcholine *trans* headgroup conformation (Batenjany, M.M. (1192) 205)

Myoglobin; Ligand binding; Mutant (Biram, D. (1204) 207)

RanBP1
Ran/TC4 protein; RCC1; GTP binding protein; HTF9A (Butler, G. (1219) 711)

Random sequential Bi Bi mechanism
Glutathione *S*-transferase; Rapid equilibrium; Bi Bi mechanism (Thumser, A.E.A. (1203) 115)

Ran/TC4 protein
RCC1; GTP binding protein; RanBP1; HTF9A (Butler, G. (1219) 711)

rap1B
Platelets; Small G-proteins; Cytoskeleton; cAMP; Concanavalin A (Ramaschi, G. (1199) 20)

RAP74
General transcription factor; RNA polymerase; In vitro transcription; Transcription initiation complex (Chibazakura, T. (1219) 592)

Rapid equilibrium
Glutathione *S*-transferase; Bi Bi mechanism; Random sequential Bi Bi mechanism (Thumser, A.E.A. (1203) 115)

Rapid freezing
EXAFS; Myoglobin; XANES (Saigo, S. (1202) 99)

Ras
Endometrial carcinoma; Methylation; Prenylated protein methyltransferase (Klein, Z. (1226) 330)

Ras protein
Isoprenylation; Farnesyltransferase; Geranylgeranyltransferase; (*S. cerevisiae*) (Caplin, B.E. (1205) 39)

Ras proto-oncogene function
Signal transduction; Nerve growth factor; PC12 cell; Neuronal differentiation (Szeberényi, J. (1222) 187)

Rat blood
GSH; GSSG; Glutathione-protein mixed disulfide; Oxidative stress; Glucose (Di Simplicio, P. (1199) 245)

Rat brain
Thiamine diphosphate; Thiamine triphosphate; Sulbutiamine; Metabolism; Subcellular fractionation (Bettendorff, L. (1222) 1)

Rate limitation
Coupling; Slip; Metabolic control analysis; Enzyme thermodynamics; Enzyme kinetics (Kholodenko, B.N. (1208) 294)

Rat heart sarcolemma
Phospholipase C; Phosphatidylinositol 4,5-bisphosphate; Hydrogen peroxide; Hypochlorous acid; Sulfhydryl groups (Meij, J.T.A. (1199) 6)

Rat lens
Phosphocholine; Phosphorylcholine; Phosphoethanolamine; Phosphorylethanolamine; Choline kinase; Ethanolamine kinase (Ekambaram, M.C. (1213) 289)

Rat tail tendon
Collagen; Methylene blue; Photosensitizer; Photo-oxidation; Cross-linking (Ramshaw, J.A.M. (1206) 225)

Raw-starch-digestion
Proteolysis; Proteolytic enzyme; Amylase; Domain structure: Enzyme multiplicity; (*B. circulans* F-2); (Subtilisin); (Proteinase K); (Endopeptidase Glu-C); (Thermolysin) (Kim, C.-H. (1202) 200)

RB protein
Protein kinase; Double-stranded DNA; Autophosphorylation; Ku protein; Myc (Watanabe, F. (1223) 255)

RCC1
Ran/TC4 protein; GTP binding protein; RanBP1; HTF9A (Butler, G. (1219) 711)

Reabsorption of carnitine
Systemic carnitine deficiency; Na-dependent transport system; (Animal model) (Horiuchi, M. (1226) 25)

Reaction center
Photosynthesis; Electron transfer; FTIR; Spectroelectrochemistry (Bauscher, M. (1183) 59)

Quinone electron acceptor; Charge recombination; Electron transfer; Pigment-protein complex; Anoxygenic photosynthesis; (*E. mobilis*) (Leguijt, T. (1183) 292)

Electron transfer; Supercomplex; Cytochrome c_2; bc_1 complex; (*R. sphaeroides*) (Verméglio, A. (1183) 352)

Picosecond transient absorption; Energy transfer; Singlet-triplet quenching; Anisotropy; (*H. chlorum*) (Van Noort, P.I. (1184) 21)

Photosynthesis; Light-harvesting complex; Carotenoid; Protein kinase; Protein phosphorylation; (*R. rubrum*) (Ghosh, R. (1184) 28)

Photosystem II; Light-harvesting antenna; Charge separation; Charge recombination; Energy and electron transfer; Fluorescence kinetics (Freiberg, A. (1184) 45)

Picosecond transient absorption; Energy transfer; Charge separation; Photosystem II; Pigment arrangement (Schelvis, J.P.M. (1184) 242)

Photosystem II; Photosynthesis; Cyanobacterium; Non-heme iron; Quinone; Iron (Vermaas, W. (1184) 263)

Electron transfer; Fluorescence; Photosystem II; Sugar beet; Time-resolved (Montoya, G. (1185) 85)

Vibrational analysis; Photosynthesis; Carotenoid; Spheroidene structure; Resonance Raman; (*Rb. sphaeroides*) (Kok, P. (1185) 188)

Photosynthesis; B820 subunit; Light-harvesting complex; Bacteriochlorophyll; Exciton interaction (Kerfeld, C.A. (1185) 193)

Photosystem II regulation; Localized proton; Light-harvesting complex phosphorylation; Excitation energy; Energy transfer (Ehrenheim, A.M. (1185) 279)

Membrane environment; Environmental influence; Vibrational motion; Protein matrix; Chromophore; (*Rb. sphaeroides*) (Vos, M.H. (1186) 117)

Photosystem II; Charge separation; Charge recombination; (*C. reinhardtii, P. sativum*) (Giorgi, L.B. (1186) 247)

Electron transfer; Cytochrome c_2; (*Rb. sphaeroides*) (Mathis, P. (1187) 177)

Chlorophyll; Chromatography; FPLC; Pheophytin; Photosynthesis; Pigment stoichiometry (Aured, M. (1187) 187)

Electron transfer; Supercomplex; Cytochrome c_2; bc_1 complex; (*Rb. sphaeroides* forma sp. *denitrificans*) (Sabaty, M. (1187) 313)

Purple bacterium; Energy transfer; Antenna; Energy trapping; (*C. vinosum*); (*C. tepidum*) (Kennis, J.T.M. (1188) 278)

Reaction center closure
Photosystem II; Fluorescence decay; Excitation energy transfer; (Cyanobacterium) (Mullineaux, C.W. (1183) 345)

Reaction center protein
Photosystem I; *psaA*; *psaB*; Cyanobacterium, filamentous; (*Anabaena variabilis* ATCC 29413) (Nyhus, K.J. (1185) 247)

Reaction mechanism
Oxomolybdenum enzyme; Enzyme reaction mechanism; Hydroxylation; Metalloenzyme (Hille, R. (1184) 143)

Tyrosinase; Melanin; Biosynthesis; Melanogenesis; Enzyme kinetics; Metabolic pathway (Ros, J.R. (1204) 33)

Allene oxide synthase; Fatty acid; α-Linolenic acid; γ-Linolenic acid; (Flax seeds) (Grechkin, A.N. (1213) 199)

Reactive center
Plasminogen activator inihibitor-1; Plasminogen activator; Latency; Serpin (Munch, M. (1202) 29)

Reactive lysine
Glycerol dehydrogenase; Pyridoxal-5-phosphate; Site-directed mutagenesis; (*B. stearothermophilus*) (Paine, L.J. (1202) 235)

Reactive oxygen species
Mitochondrial damage; 5-Aminolevulinic acid; Calcium ion; Protein oxidation (Vercesi, A.E. (1188) 86)

5-Aminolevulinic acid; Single-strand break; DNA damage; Plasmid DNA; Acute intermittent porphyria; Liver-cell carcinoma (Onuki, J. (1225) 259)

Eye lens; Aqueous humor; Lipid peroxidation; Cataract (Babizhayev, M.A. (1225) 326)

Receptor
Granulosa cell; Angiotensin II; Antagonist (Ohnishi, J. (1192) 286)

Maculosin; Host specific toxin; Affinity Chromatography; Plant disease (Park, S.H. (1199) 13)

Hormone regulation; Adipocyte; Adipose tissue; cAMP; Lipolysis (Kaartinen, J.M. (1201) 69)

Insulin-like growth factor II; Gene expression; Protein purification; (Human) (Miyagishima, T. (1203) 155)

Platelet-activating factor; HETEs; Phospholipid; Neutrophil (O'Flaherty, J.T. (1210) 209)

Lipoprotein; Cholesteryl ester; Selective uptake; Lipid; Binding; (Human); (HepG2 cell) (Brissette, L. (1213) 5)

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α-Fetoprotein; Fetoprotein; Serum albumin; Fatty acid; (Lymphocyte); (Human) (Uriel, J. (1220) 231)

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Cholecystokinin; Kinetics; (Pancreas) (Talkad, V.D. (1224) 103)

Cholecystokinin; Kinetics; (Pancreas) (Pandya, P.K. (1224) 117)

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Receptor antagonist
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24-Fluoro-1α,25-dihydroxyvitamin D-2; 24-Epi-24-fluoro-1α,25-dihydroxyvitamin D-2; Cell differentiation; Bone calcium mobilization; Intestinal calcium transport (Imae, Y. (1213) 302)

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Dopamine D_1 receptor; G_s protein; Binding site; Synthetic peptide (König, B. (1223) 261)

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Receptor binding site
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Receptor domain
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Receptor-like protein kinase
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Receptor mobility
Receptor antagonist; Epithelium; Membrane; Fluorescence; (Kidney) (Pavo, I. (1223) 240)

Receptor protein-tyrosine kinase
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Recombinant
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Recombinant LCAT
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Recombinant acylphosphatase
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Recombinant apo(a)
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Recombinant DNA
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Recombinant *E. coli*
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Recombinant human EGF
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Recombinant lectin
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Reconstituted HDL
Apo A-I; Co-solvent; Self-association; Circular dichroism; Fluorescence (Leroy, A. (1212) 285)

Reconstituted lipoprotein(a)
Recombinant apo(a); LDL; Enzyme activation; Amidolytic activity; Proteolytic activity (Pursiainen, M. (1215) 170)

Reconstitution
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Ornithine carrier; Kinetics; Liposome; Mitochondrion; (Rat liver) (Indiveri, C. (1188) 293)

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LH/hCG receptor; Delipidation; Thermal inactivation; Membrane fluidity (Kolena, J. (1193) 293)

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Velocity sedimentation; Protein–protein interaction; Chemotaxis; G protein; Chemoattractant receptor (Bommakanti, R.K. (1209) 69)

Affinity chromatography; Sucrose transport; Plasmalemma; Plasma membrane; (Plant); (Sugar beet) (Li, Z.-S. (1219) 389)

Red blood cell
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Red cell membrane deformability
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Red cell membrane protein band 4.2
Cytoskeleton; Intramembrane particle; Hemolytic anemia; Red cell membrane deformability; DNA sequence (Yawata, Y. (1204) 131)

Red membrane
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Redox-Bohr effect
Cytochrome c_3; Heme protein; NMR, two-dimensional; Cooperativity; Redox mechanism (Turner, D.L. (1187) 232)

Redox energy
Energy coupling; Stress (Williams, R.J.P. (1187) 125)

Redox mechanism
Cytochrome c_3; Heme protein; NMR, two-dimensional; Cooperativity; Redox-Bohr effect (Turner, D.L. (1187) 232)

Redox potential
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Copper; Iron; Lipid peroxidation; Metal chelator; Free radical (Yoshida, Y. (1210) 81)

Redox sensor
Protein phosphorylation; Cytochrome b_6f; Protein kinase; Redox titration; Plastosemiquinone; (Chloroplast thylakoid) (Silverstein, T. (1183) 215)

Redox slip
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Redox titration
Protein phosphorylation; Redox sensor; Cytochrome b_6f; Protein kinase; Plastosemiquinone; (Chloroplast thylakoid) (Silverstein, T. (1183) 215)

Electron paramagnetic resonance; Prismane protein; Complex Fe-S cluster; [6Fe-6S] cluster; Molecular cloning; *(Desulfovibrio)* (Van den Berg, W.A.M. (1206) 240)

Reduced oxygen species
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Refolding
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Refsum's disease
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reg
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Regenerating gene
reg; *reg*/PSP gene family; Gene structure; cDNA; Expression; (Human) (Moriizumi, S. (1217) 199)

Regeneration (Rat liver)
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Luciferase assay; Gel shift assay; CANNTG motif; (Rat) (Miyashita, H. (1219) 241)

Regioselectivity
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Regular solution
Scanning calorimetry; Bilayer; Indocarbocyanine; Partitioning; Phospholipid; Thermodynamics (Spink, C.H. (1191) 164)

Regulation
Energy coupling; Enzymology; Signaling (Van Dam, K. (1187) 129)

Membrane; Lipid; Mycoplasma; Multivariate analysis; (*A. laidlawii*) (Wieslander, Å. (1191) 331)

Hexokinase; Citric acid accumulation; 2-Deoxyglucose resistance; Glycolysis; (*A. niger*) (Steinböck, F. (1200) 215)

Erythroblast; Haem; Iron; Ferrochelatase; 5-Aminolaevulinic acid synthase (Houston, T. (1201) 85)

Alanine aminotransferase; Aspartate aminotransferase; Vitamin B-6 derivative; Aminothiol (Pagani, R. (1204) 250)

Diurnal rhythm; Cholesterol ester; Acyl-CoA: cholesterol acyltransferase (Szanto, A. (1214) 39)

Lipase; Pancreas; Gene expression (Huang, Y. (1214) 317)

Oxygen; Gene; Erythropoietin; Enhancer (Pugh, C.W. (1217) 297)

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GM2 gangliosidosis; Promoter; mRNA quantitation; (Mouse) (Triggs-Raine, B.L. (1227) 79)

Regulation iron absorption
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Regulatory circuit
AraC protein; Gene expression; Protein–DNA interaction; Transfection (Raman, V. (1219) 441)

Regulatory domain
AMP deaminase; Limited proteolysis; Amino acid sequence; (Rabbit skeletal muscle) (Ronca, F. (1209) 123)

Regulatory element
Sodium ion–proton exchanger gene; Transcriptional regulation; Nuclear activity; (Human) (Kolyada, A.Y. (1217) 54)

Transcription control; DNA topoisomerase gene; (Mouse); (Human) (Baumgärtner, B. (1218) 123)

Selenium; Gene regulation; Nuclear protein; Antioxidant (Christensen, M.J. (1225) 338)

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β-Adrenergic receptor; Guanine nucleotide binding; Adenylate cyclase; Sex difference; Hepatectomy, partial; (Rat hepatocyte) (Yagami, T. (1222) 257)

Regulatory sequence
Thymidylate synthase; DNA-binding factor; Promoter; Fibroblast cell; HeLa cell; (Human) (Horie, N. (1216) 409)

Regulatory volume decrease
Amino acid; Biological transport; Glutamine; Cell volume; (Fibroblast); (Human) (Dall'Asta, V. (1220) 139)

Protein kinase C; Regulatory volume increase; Sodium/potassium/chloride cotransport (Larsen, A.K. (1222) 477)

Regulatory volume increase
Protein kinase C; Regulatory volume decrease; Sodium/potassium/chloride cotransport (Larsen, A.K. (1222) 477)

Regulon
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Relaxation
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Remote loading
Perfluoroalkylated phosphatidylcholine; Fluorinated liposome; Permeability; Doxorubicin (Frézard, F. (1194) 61)

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Renal transport
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S-layer gene; Archaea; (*Methanosarcina mazei*) (Yao, R. (1219) 697)

Repeated sequence
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Repetitive DNA
Luteinizing hormone receptor; 3'-Noncoding region; Polyadenylation site; DNA; mRNA heterogeneity; (Rat) (Hu, Z.-Z. (1220) 333)

Repetitive sequence
Cloning problem; Replicator element; (*Physarum polycephalum*) (Kruse, L. (1216) 129)

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Replication origin
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Replicator element
Repetitive sequence; Cloning problem; (*Physarum polycephalum*) (Kruse, L. (1216) 129)

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Resin acid
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Membrane fusion; Poly(ethylene glycol); Surfactant; Phospholipase C; (B16 melanoma cell) (Partearroyo, M.A. (1189) 175)

ATPase, Ca^{2+}-; Fluorescence; Sarcoplasmic reticulum; Cysteine; Covalent modification (Baker, K.J. (1192) 53)

Resonance Raman
Vibrational analysis; Photosynthesis; Carotenoid; Spheroidene structure; Reaction center; (*Rb. sphaeroides*) (Kok, P. (1185) 188)

Myoglobin; Genetic modification; Infrared; Conformational substate (Ling, J. (1188) 417)

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B820 subunit; Core antenna complex; Hydrogen bonding; Band shift; (*Rs. rubrum* G9) (Visschers, R.W. (1183) 369)

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Mitochondrion; Alternative oxidase; Oxidative phosphorylation; Ubiquinone; (Plant) (Moore, A.L. (1187) 145)

Photosynthesis; Cyanobacterium; Photosystem II; Photosystem I (Vermaas, W.F.J. (1187) 181)

Cytochrome *c* oxidase; Cytoplasmic (plasma) membrane; Intracytoplasmic (thylakoid) membrane; Localization; Immuno-gold labeling; Cyanobacteria; (*Anacystis nidulans* R2); (*Synechococcus* PCC7942) (Peschek, G.A. (1187) 369)

Higher plant; Oxygen uptake; Chlororespiration; Photosynthesis (Gruszecki, W.I. (1188) 335)

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Tyrosine phosphorylation; Macrophage; Phorbol myristate acetate; Signal transduction (Green, S.P. (1222) 241)

Respiratory chain
Cytochrome-*c* oxidase; *ctaCDE* gene; Thermophile; Cyanobacterium; (*S. vulcanus*) (Sone, N. (1183) 130)

Mitochondrion; Alternative pathway; Quinone; Cytochrome *b*; Electron flux; (*C. parapsilosis*) (Guerin, M.G. (1184) 111)

Copper center; Cytochrome oxidase; Cu_A center; (*P. denitrificans*) (Lappalainen, P. (1187) 222)

Cytochrome *c* reductase; Cytochrome bc_1 complex; Protein transport; Mitochondrion; (*S. tuberosum*) (Braun, H.-P. (1188) 367)

Ageing; Mitochondrial respiration; Cytochrome c oxidase; NADH-ubiquinone oxidoreductase; Cytochrome (Boffoli, D. (1226) 73)

Respiratory inhibitor
NADH:ubiquinone reductase; Complex I; Ubiquinone; Proton pumping (Degli Esposti, M. (1187) 116)

Respiratory oxidase
Proton translocation; Proton pump; Histidine cycle (Wikström, M. (1187) 106)

Response characterization
α_1-Adrenoceptor; Hepatic metabolism; Perfused liver; (Rat) (Urcelay, E. (1220) 49)

Response spectrum
Photosystem I; Photosystem II; State 1-state 2 transitions; LHCII kinase; Protein transport; Thylakoid membranes (McCormac, D.J. (1187) 301)

Restrained molecular dynamics
Griseoviridin; Group A antibiotic; Rotating frame NOE; Three-dimensional structure; NMR, two-dimensional (Jayaraman, G. (1201) 149)

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Restriction mapping
T lymphoma; VL30 retrotransposon; (Mouse) (French, N.S. (1219) 484)

Reticuloplasmin
Calreticulin; Protein disulfide isomerase; Mammary gland; Milk lipid globule (Ghosal, D. (1200) 175)

Retina
Phospholipid; Fatty acid; Vitamin E; (Zucker rat) (Malnoë, A. (1212) 119)

Retina cDNA library
cDNA library; Charon BS vector; ATPase, Na^+/K^+-; Beta2 subunit isozyme (Hernando, N. (1189) 109)

Retinal
Bacteriorhodopsin; Photocycle; Schiff base (Tittor, J. (1187) 191)

Retinal isomerization
Bacteriorhodopsin; Retinal protein; Proton pump; Proton translocation; Photocycle; (Halobacteria) (Lanyi, J.K. (1183) 241)

Retinal oxidase
Retinoic acid synthase; Oxidoreductase; Flavoenzyme; Retinoid; Hepatocyte; (Rabbit) (Tsujita, M. (1204) 108)

Retinal protein
Bacteriorhodopsin; Retinal isomerization; Proton pump; Proton translocation; Photocycle; (Halobacteria) (Lanyi, J.K. (1183) 241)

Retinoblastoma
Tumor suppressor gene; Cancer gene (Feinstein, R. (1218) 82)

Retinoic acid
Thyroxine binding; Inhibition; Binding site; Erythrocyte; (Human) (Smith, T.J. (1199) 76)

RXR; Retinoid; (*Xenopus*) (Marklew, S. (1218) 267)

Fibroblast; Type I collagen; (Human lung) (Krupsky, M. (1219) 335)

cyclic AMP; Retinoic acid nuclear receptor; G protein; Protein kinase A; Teratocarcinoma differentiation; (Human) (Kurie, J.M. (1222) 88)

Steroid biotransformation; Hepatic microsomal enzyme; 17β-Hydroxysteroid oxidoreductase; Enzyme inhibition (Murray, M. (1222) 227)

Retinoic acid nuclear receptor
cyclic AMP; Retinoic acid; G protein; Protein kinase A; Teratocarcinoma differentiation; (Human) (Kurie, J.M. (1222) 88)

Retinoic-acid receptor α DNA-binding property
Hydrodynamic characterization; (HL-60 cell); (Human) (Sablonniere, B. (1220) 85)

Retinoic acid synthase
Retinal oxidase; Oxidoreductase; Flavoenzyme; Retinoid; Hepatocyte; (Rabbit) (Tsujita, M. (1204) 108)

Retinoid
Secretory protein; Epididymis; Androgen (Regalado, F. (1200) 235)

Retinoic acid synthase; Retinal oxidase; Oxidoreductase; Flavoenzyme; Hepatocyte; (Rabbit) (Tsujita, M. (1204) 108)

RXR; Retinoic acid; (*Xenopus*) (Marklew, S. (1218) 267)

Retinoid binding protein
Fluorescence; Binding assay; Lipid–protein interaction (Norris, A.W. (1209) 10)

Retinoid-binding protein
Vitamin A; Didehydroretinol; Metabolism; Keratinocyte; Cellular retinoid-binding protein; (HeLa cell); (F9 cell); (CV-1 cell) (Andersson, E. (1224) 349)

Retinol
β-Lactoglobulin; Diphenylhexatriene; Protein structure; Fluorescence (Dufour, E. (1205) 105)

Cellular retinol binding protein; Dynamics; Conformation (Rong, D. (1208) 136)

Retinol binding
β-Lactoglobulin; Site-directed mutagenesis; Conformational stability; Structural perturbation; Conserved residue (Katakura, Y. (1207) 58)

Retinyl ester hydrolase
Vitamin A; Liposome; Lysosome; (Rat) (Mercier, M. (1212) 176)

Retroposon
TRS/ingi; Reverse transcriptase; (*Trypanosoma brucei*) (Glauser, A. (1218) 99)

Retroviral vector
Endotoxin; Cellular receptor; Signal transduction; Tyrosine kinase; (Mouse) (LeGrand, C.B. (1223) 36)

Retrovirus
HIV; Reverse transcriptase; Strand transfer; DNA polymerase (Buiser, R.G. (1216) 20)

Reversal specificity
Multidrug resistance; Transport inhibition; Leukemic lymphoblast; Efflux pump (Wigler, P.W. (1189) 1)

Reverse cholesterol transport
LCAT; Lipoprotein; Apo A-I (Ohta, T. (1213) 295)

Cholesterol transfer; High density lipoprotein (Pieters, M.N. (1225) 125)

Reversed micelle
Fluorescence anisotropy; Maximum entropy method; Lifetime distribution; Correlation time distribution (Visser, A.J.W.G. (1204) 225)

Reverse micelle
FTIR; α-Chymotrypsin; Secondary structure (Qinglong, C. (1206) 247)

Reverse-phase HPLC
Hemolysis; Melittin; Circular dichroism; Structure-activity relationship (Blondelle, S.E. (1202) 331)

Reverse transcriptase
HIV-1 reverse transcriptase; Phosphorothioate oligonucleotide; Dissociation constant; Fluorescence (Maury, G. (1216) 1)

HIV; Strand transfer; Retrovirus; DNA polymerase (Buiser, R.G. (1216) 20)

Retroposon; TRS/ingi; (*Trypanosoma brucei*) (Glauser, A. (1218) 99)

HIV; Mutant RNAase H; RNAase H (DeStefano, J.J. (1219) 380)

Reverse transcription-polymerase chain reaction
Gene expression; Lipopolysaccharide; Probucol; Interleukin 1; Platelet-derived growth factor; U-937 (Li, S.-R. (1225) 271)

Reversible interaction
ATPase, Na^+/K^+-; Silver; Liposome; Inhibition, potent (Hussain, S. (1190) 402)

Reversible reaction
Enzyme kinetics; Product inhibition; Cooperative interaction (Duggleby, R.G. (1209) 238)

Reversible unfolding
Irreversible inactivation; Autoproteolysis; Disulfide bond; Site-directed mutagenesis; (*A. oryzae*) (Tatsumi, H. (1208) 179)

Reversion
Cytochrome *c* oxidase; Deficiency mutation; (Yeast) (Meunier, B. (1187) 112)

Reye syndrome
Fatty acid oxidation; Mitochondrial enzyme; Non-cleavable signal; Sequence homology; Sudden infant death; (Human) (Abe, H. (1216) 304)

Rhodamine
Influenza virus; Fusion; Erythrocyte; Fluorescence (Arbuzova, A. (1190) 360)

Rhodophyte
Photosystem I; Photosystem II; Light harvesting complex I; (*Porphyridium*) (Wolfe, G.R. (1188) 357)

Rho protein
GTP-binding protein; C3 exoenzyme; ADP-ribosylation; Tissue specificity (Fritz, G. (1222) 331)

RIβ
cyclic AMP-dependent protein kinase; Protein kinase; Phosphorylation; cyclic AMP; (Testis) (DeManno, D.A. (1222) 501)

Ribonuclease
Pancreatic RNAase; Pancreas; cDNA cloning; RNAase; (Human) (Seno, M. (1218) 466)

Ribonuclease A
Electrostatic field; Crystal packing (Alexov, E. (1206) 55)

Cold-induced conformational change; Electrophoresis (Curtil, C. (1208) 1)

Ribonuclease inhibitor
RNAase; Enzyme characterization; (Placenta); (Human) (Fominaya, J. (1203) 168)

Ribonuclease superfamily
Angiogenesis; Homology; Active site (Curran, T.P. (1202) 281)

Ribonuclease T_1
Fluorescence quenching; Quenching model; Protein dynamics (Somogyi, B. (1209) 61)

Ribonucleoprotein
Glycine-rich protein; Promoter; Tissue-specific expression; (Plant); (*B. napus*) (Bergeron, D. (1216) 123)

Autoantigen; Ro (SS-A); Small cytoplasmic RNA; Y RNA (Pruijn, G.J.M. (1216) 395)

Ribonucleotide reductase
DNA cloning; Primary structure; Herpesvirus (Kaliman, A.V. (1219) 151)

Ribosomal gene, 5S
Genome; Ubiquitin; Intergenic region; rRNA cluster; (*T. pyriformis*) (Guerreiro, P. (1216) 137)

Ribosomal peptidyltransferase
Spermine; Ribosome; Puromycin reaction; Peptide bond (Drainas, D. (1208) 55)

Ribosomal protein
cDNA; L3; L7A; (Rice) (Nishi, R. (1216) 110)

cDNA; S20, S21; (Rice) (Nishi, R. (1216) 113)

L18; cDNA; (Human) (Puder, M. (1216) 134)

Nucleotide sequence; Archaebacterium; Evolution; (*H. halobium*) (Yuki, Y. (1216) 335)

L4; cDNA sequence; Amino acid sequence; (Human) (Bagni, C. (1216) 475)

cDNA; Metamorphosis; (*Xenopus laevis*) (Shi, Y.-B. (1217) 227)

Chromosomal localization; cDNA sequence; (*Drosophila*) (Ntwasa, M. (1218) 210)

L37; Colon cancer; Subtractive cDNA hybridization; (Human) (Barnard, G.F. (1218) 425)

cDNA; (Mosquito); (Rat) (Lan, Q. (1218) 460)

Ribosomal protein gene
cDNA; mRNA; (*A. thaliana*) (Sangwan, V. (1216) 221)

Ribosomal protein L3
Nuclear targeting; Bipartite motif; Bovine; cDNA (Simonic, T. (1219) 706)

Ribosomal protein L4
Single-stranded nucleic acid binding protein; Histone H2B; (Yeast) (Cusick, M.E. (1217) 31)

Ribosomal protein L5
Threonyl-tRNA synthetase; Histidyl-tRNA synthetase; 5S rRNA; 5S rRNA-protein; (Rat liver cytosol) (Ogata, K. (1218) 388)

Ribosomal protein L27
cDNA; Fetal kidney; Developmental regulation; (Human) (Gallagher, R.A. (1217) 329)

Ribosomal protein S4
Amino acid sequence; Transcription; Tissue specificity; (Potato) (Braun, H.-P. (1218) 435)

Ribosomal RNA
RNA structure; rRNA sequence; Secondary structure; Ribosome; (Mosquito) (Kjer, K.M. (1217) 147)

Ribosome
Spermine; Ribosomal peptidyltransferase; Puromycin reaction; Peptide bond (Drainas, D. (1208) 55)

Ribosomal RNA; RNA structure; rRNA sequence; Secondary structure; (Mosquito) (Kjer, K.M. (1217) 147)

$tRNA^{Phe}$ anticodon arm; P site binding; (*E. coli*) (Nekhai, S.A. (1218) 21)

Ribosome assembly
DEAD-box protein; RNA helicase; (*Drosophila*) (Lavoie, C.A. (1216) 140)

Ribosome-inactivating protein
Saporin; Translation inhibition; Tissue distribution; Translation; (*S. officinalis*) (Ferreras, J.M. (1216) 31)

RNA *N*-glycosidase; Immunotoxin; (*P. dioica*) (Parente, A. (1216) 43)

Ribozyme
Hammerhead ribozyme; Conserved domain; Synthesis (Hendry, P. (1219) 405)

Rice root
Ferredoxin-$NADP^+$ reductase; cDNA; (*O. sativa* L.) (Aoki, H. (1183) 553)

Rieske cluster
p*K* value; Mitochondrial bc_1 complex; Redox potential; Circular dichroism (Link, T.A. (1185) 81)

Rieske iron-sulfur center
EPR; Cytochrome *bc* complex; Iron-sulfur center; (*B. firmus*) (Riedel, A. (1183) 263)

Rieske iron-sulfur protein
Thylakoid membrane; Iron-sulfur protein; Cytochrome *bf* complex; Electrophoresis, two-dimensional; Microsequence (Yu, S.-G. (1185) 239)

Rieske protein
Mitochondrion; Complex III; EPR; ESEEM; ENDOR (Shergill, J.K. (1185) 35)

Rifampicin
Chloramphenicol; Clp proteinase; Photoinhibition; Photosynthesis; Pulse-chase; (*L. gibba*) (Gong, H. (1188) 422)

RINm5F cell
Beta cell; pH, intracellular; Cytosolic calcium ion; Membrane potential (Best, L. (1192) 107)

RLK5
Protein phosphorylation; Receptor-like protein kinase; Serine/threonine kinase; (*A. thaliana*) (Horn, M.A. (1208) 65)

RNA
Actin; Transcription; Promoter; Antisense RNA; Transformation vector (Knecht, D. (1216) 105)

Branched-chain α-ketoacid dehydrogenase; E1β subunit; Murine tissue-specific expression; cDNA; Ketoacid dehydrogenase; (Mouse liver) (Chinsky, J.M. (1216) 499)

catalytic RNA; Synthetic oligoribonucleotide; Hairpin structure; Mutant RNA; Circular dichroism; Tumor suppressor gene; (Bacteriophage) (Hosaka, H. (1218) 351)

RNA binding
eIF-2; Zinc finger; Cross-linking (Flynn, A. (1219) 293)

RNA-binding motif
Fibrillarin; cDNA sequence; GAR domain; Interspecies amino acid sequence homology (Turley, S.J. (1216) 119)

RNA-binding protein
Protein synthesis; Protein kinase; cDNA; (Rat) (Mellor, H. (1219) 693)

RNA catalysis
Modified nucleotide; Metalloenzyme; RNAase (Bratty, J. (1216) 345)

RNA editing
coxII gene; Plant mitochondrion; (*Psilotum nudum*) (Sper-Whitis, G.L. (1218) 218)

RNA helicase
DEAD-box protein; Ribosome assembly; (*Drosophila*) (Lavoie, C.A. (1216) 140)

RNA homopolymer
Zinc finger; Amino acid structural repeat; cDNA sequence; (*X. laevis*) (Klocke, B. (1217) 81)

RNA *N*-glycosidase
Ribosome-inactivating protein; Immunotoxin; (*P. dioica*) (Parente, A. (1216) 43)

RNA polymerase
Cell-free expression system; Transcription/translation; Magnetic field (Goodman, E.M. (1202) 107)

General transcription factor; RAP74; In vitro transcription; Transcription initiation complex (Chibazakura, T. (1219) 592)

RNA processing
Calcitonin/CGRP-I gene; Polyadenylation (Van Oers, C.C.M. (1218) 55)

Adrenergic receptor; Hepatocyte; Transcription (Deng, C.-l. (1219) 669)

RNA recognition motif
Differential screening; Cell cycle; Secondary structure; DNA-binding motif (Schmidt, G. (1216) 317)

RNA splicing
Glutamate receptor; AMPA; Kainate; cDNA sequence; Amino acid sequence; (Human) (Rampersad, V. (1219) 563)

RNA structure
Ribosomal RNA; rRNA sequence; Secondary structure; Ribosome; (Mosquito) (Kjer, K.M. (1217) 147)

RNAase P; Catalytic RNA; Cyanobacterium; (*Pseudoanabaena*) (Pascual, A. (1218) 463)

Large ribosomal subunit RNA; 2′-*O*-Methylation; Secondary structure; ribosomal RNA; Methylation; (*X. laevis*) (Ajuh, P.M. (1219) 89)

catalytic RNA
Synthetic oligoribonucleotide; Hairpin structure; Mutant RNA; Circular dichroism; Tumor suppressor gene; RNA; (Bacteriophage) (Hosaka, H. (1218) 351)

mRNA
Hepatic lipase; Cholesterol; Cholestyramine; Simvastatin; HMG-CoA reductase (Benhizia, F. (1211) 181)

Apo B; Ethanol; HepG2 cell (Wang, T.W.M. (1211) 234)

Apolipoprotein; Apolipoprotein B; Intestine; Postprandial; (Human) (Lopez-Miranda, J. (1214) 143)

Protein-tyrosine phosphatase; mRNA stabilization; Mitogenic stimulation; T-lymphocyte (Rajendrakumar, G.V. (1216) 205)

Ribosomal protein gene; cDNA; (*A. thaliana*) (Sangwan, V. (1216) 221)

Serum amyloid A gene; Inflammation; Amyloidosis; Gene expression; (Mink) (Rygg, M. (1216) 402)

Vitamin D; Calcium; Metalloendopeptidase; Proteinase; Chorioallantoic membrane; (Avian) (Elaroussi, M.A. (1217) 1)

HL-60 cell; 1,25-Dihydroxyvitamin D-3; Cell differentiation (Chen, K.-S. (1219) 26)

Histone H3.3; Sea urchin; (*P. lividus* embryo) (Fucci, L. (1219) 539)

CSF, M-; Alternative splicing; PCR; RT-PCR; Interferon γ; (Human) (Ohtsuki, T. (1222) 141)

C-reactive protein; Inflammation; Estradiol-17β; (Rat) (Nunomura, W. (1227) 74)

mRNA cloning
PAP III; Gene family; Gene sequencing; Pancreatitis; (Rat) (Frigerio, J.-M. (1216) 329)

mRNA editing
Apolipoprotein B; Mooring sequence (Backus, J.W. (1219) 1)

mRNA alternative splicing
Protein phosphatase; cDNA sequence; Amino acid sequence; Chromosomal localization; (Human) (Barker, H.M. (1220) 212)

ribosomal RNA
Large ribosomal subunit RNA; 2′-*O*-Methylation; Secondary structure; RNA structure; Methylation; (*X. laevis*) (Ajuh, P.M. (1219) 89)

snRNA
Echinoderm; U6 snRNA; (Sea urchin) (Sakallah, S.A. (1218) 439)

5S rRNA
Threonyl-tRNA synthetase; Histidyl-tRNA synthetase; Ribosomal protein L5; 5S rRNA-protein; (Rat liver cytosol) (Ogata, K. (1218) 388)

tRNA
tRNA–ribosome interaction; P site (Nekhai, S.A. (1218) 481)

Mitochondria; mtDNA; Myopathy; Encephalomyopathy (Houshmand, M. (1226) 49)

thymus RNA
CD44; cDNA; Membrane glycoprotein (Milde, K.F. (1218) 112)

$tRNA^{Phe}$ anticodon arm
P site binding; Ribosome; (*E. coli*) (Nekhai, S.A. (1218) 21)

mRNA editing
Mooring sequence; Apolipoprotein B; (Mammal) (Backus, J.W. (1217) 65)

mRNA expression
Potassium ion channel; Hypo-osmotic response; Oocyte; A6 cell; (*Xenopus*) (Ratcliff, F.G. (1190) 248)

mRNA heterogeneity
Luteinizing hormone receptor; 3′-Noncoding region; Polyadenylation site; Repetitive DNA; DNA; (Rat) (Hu, Z.-Z. (1220) 333)

mRNA quantitation
GM2 gangliosidosis; Regulation; Promoter; (Mouse) (Triggs-Raine, B.L. (1227) 79)

mRNA stabilization
Protein-tyrosine phosphatase; Mitogenic stimulation; mRNA; T-lymphocyte (Rajendrakumar, G.V. (1216) 205)

mRNA structure
TOL; Promoter; (*Pseudomonas*) (Marqués, S. (1216) 227)

mRNA untranslated region
Monoamine biosynthesis; Protein kinase C regulation; Phospoholipase A_2; Signal transduction (Swanson, K.D. (1216) 145)

rRNA, 16S
SSU; Thermophile; Secondary structure model (Saul, D.J. (1217) 211)

5S rRNA-protein
Threonyl-tRNA synthetase; Histidyl-tRNA synthetase; 5S rRNA; Ribosomal protein L5; (Rat liver cytosol) (Ogata, K. (1218) 388)

rRNA cluster
Genome; Ubiquitin; Intergenic region; Ribosomal gene, 5S; (*T. pyriformis*) (Guerreiro, P. (1216) 137)

rRNA gene, 5S
tRNA operon; Promoter; Sequence; (Lactic acid bacterium) (Nilsson, D. (1219) 141)

rRNA sequence
Ribosomal RNA; RNA structure; Secondary structure; Ribosome; (Mosquito) (Kjer, K.M. (1217) 147)

tRNA–ribosome interaction
tRNA; P site (Nekhai, S.A. (1218) 481)

RNAase
Ribonuclease inhibitor; Enzyme characterization; (Placenta); (Human) (Fominaya, J. (1203) 168)

RNA catalysis; Modified nucleotide; Metalloenzyme (Bratty, J. (1216) 345)

Ribonuclease; Pancreatic RNAase; Pancreas; cDNA cloning; (Human) (Seno, M. (1218) 466)

RNAase H
HIV; Reverse transcriptase; Mutant RNAase H (DeStefano, J.J. (1219) 380)

RNAase P
Catalytic RNA; Cyanobacterium; RNA structure; (*Pseudoanabaena*) (Pascual, A. (1218) 463)

RNAase protection
cDNA; Phosphorylation; Pyruvate dehydrogenase complex; Somatic; (Testis) (Cullingford, T.E. (1216) 149)

RNAase protection assay
Calretinin; Immunocytochemistry; Western blot; Hybridization, in situ; (Rat testis); (Leydig cell) (Strauss, K.I. (1219) 435)

hnRNP-U
SAF-A; Polyadenylation signal (Fackelmayer, F.O. (1217) 232)

Rodent
Metallothionein; Sequence homology; Cadmium resistance; Gene amplification (Yamada, K. (1219) 581)

Rod outer segment
Sodium–calcium ion exchange; Photoreceptor; Protein association; Vesicle sidedness; (Bovine) (Huppertz, B. (1189) 119)

Dietary fat; ($n-3$) Fatty acid; Very-long-chain fatty acid; Diabetes; (Rat) (Suh, M. (1214) 54)

Rose bengal
Histidine; DEPC; Chemical modification; Ferricyanide reductase; Ehrlich ascites tumor cell (Medina, M.A. (1190) 20)

Ro (SS-A)
Autoantigen; Ribonucleoprotein; Small cytoplasmic RNA; Y RNA (Pruijn, G.J.M. (1216) 395)

Rotamase
Peptidyl-prolyl *cis-trans* isomerase; PPIase; Esterase; Mutant; Sequence (Kok, R.G. (1219) 601)

Rotating frame NOE
Griseoviridin; Group A antibiotic; Restrained molecular dynamics; Three-dimensional structure; NMR, two-dimensional (Jayaraman, G. (1201) 149)

Rotation dynamics
MHC class I antigen; Luteinizing hormone receptor; Polarized fluorescence depletion; (Ovine luteal cell) (Kenny, N. (1220) 94)

Rotenone
Complex I; MPP^+; NADH dehydrogenase; NADH-Q oxidoreductase; Q_{10}; Piericidin A; Ubiquinone (Singer, T.P. (1187) 198)

Glucose transport; GLUT1; GLUT4; Workload; Palmitate; (Rat heart) (Wheeler, T.J. (1196) 191)

Rough endoplasmic reticulum
Membrane fusion; Gas chromatography; GTP; CMP; Polyunsaturated free fatty acid (Paiement, J. (1190) 199)

***rpoD* gene**
Principal sigma factor; Nucleotide sequence; (*Lactococcus lactis*) (Gansel, X. (1216) 115)

RpoS
KatF; Sigma factor; DNA sequence; (*Salmonella*) (Prince, R.W. (1219) 198)

RpsM(S13) mutation
Sequence; Antisuppression; Translation (Faxén, M. (1218) 27)

RT-PCR
Gene expression; Inflammation; Gene family; Avidin; (Chicken) (Kunnas, T.A. (1216) 441)

CSF, M-; mRNA; Alternative splicing; PCR; Interferon γ; (Human) (Ohtsuki, T. (1222) 141)

Rubisco activase
ATP; ATPγS; Fluorescence; Enzyme regulation; (Spinach) (Wang, Z.Y. (1202) 47)

Run-off transcript
Bacteriophage S13; Promoter; Transcription (Ringuette, M.J. (1218) 331)

Ruthenium modification (Blue-green algae)
Ferredoxin; Pulse radiolysis; Protein characterization (Lloyd, E. (1202) 113)

RXR
Retinoic acid; Retinoid; (*Xenopus*) (Marklew, S. (1218) 267)

Ryanodine
Sarcoplasmic reticulum; ATPase, Ca^{2+}-; Cytosolic phosphorylation potential; Ventricular myocardium; Caffeine; Pyruvate (Mallet, R.T. (1224) 22)

Ryanodine receptor
Anesthetic, volatile; Halothane; Isoflurane; Enflurane; Contractility; Calcium; (Heart) (Lynch III, C. (1194) 109)

S

S100β
Glial activation; Alzheimer's disease; ELISA; Cytokine; Immunohistochemistry (Van Eldik, L.J. (1223) 398)

S100C
Cytoskeleton; Annexin I; Calcium binding protein; Protein kinase C; Affinity chromatography (Naka, M. (1223) 348)

S100 protein
Calcium binding protein; Calcyclin; Dimerization; Covalent and non-covalent dimer (Wojda, U. (1209) 248)

Intermediate filament; Glial fibrillary acidic protein; Assembly; Calcium (Bianchi, R. (1223) 354)

Annexin; Calpactin I; Glial filament; Interaction; Acrylodan (Bianchi, R. (1223) 361)

SAF-A
hnRNP-U; Polyadenylation signal (Fackelmayer, F.O. (1217) 232)

Salivary gland
Galactosyltransferase; Cell proliferation; Protein kinase; Cancer (Kerr, M. (1218) 375)

Salt
Casein kinase II; Recombinant; Subunit; (*Drosophila*) (Tiganis, T. (1203) 282)

Salt bridge
NMR, ^1H-; NMR, ^{15}N-; Horseradish peroxidase; Chemical modification; Thiocyanate binding (Modi, S. (1204) 14)

Acetylcholinesterase; Amphiphilic form; Dimerization; Stability; (*T. californica*) (Bucht, G. (1209) 265)

Saponin-skinned fiber
Skeletal muscle; Oxidative phosphorylation; Caffeine; Calcium; (Human) (Khuchua, Z. (1188) 373)

Saporin
Ribosome-inactivating protein; Translation inhibition; Tissue distribution; Translation; (*S. officinalis*) (Ferreras, J.M. (1216) 31)

Sarcoplasmic reticulum
ATPase, Ca^{2+}-; Calcium ion binding; Protein conformational change; Protein fluorescence; FTIR; Caged compound (Georg, H. (1188) 139)

Calcium pump; Proton ejection (Da Costa, A.G. (1189) 181)

Nitrendipine; Valinomycin; ATPase, Ca^{2+}-; Calcium ion transport; Ionophore; (Rat) (Beeler, T.J. (1189) 189)

Calcium pump; Cardiac muscle; Muscle; Fast skeletal muscle; Fluoride (Hawkins, C. (1191) 231)

ATPase, Ca^{2+}-; Fluorescence; Resonance energy transfer; Cysteine; Covalent modification (Baker, K.J. (1192) 53)

Detergent; Surfactant; Membrane solubilization; Hecameg (Ruiz, M.B. (1193) 301)

Glycogen phosphorylase; Phosphoglucomutase; Glycosidase; Myokinase; Creatine kinase (Cuenda, A. (1194) 35)

Infrared spectroscopy; ATPase, Ca^{2+}-; Structure; Structural change (Barth, A. (1194) 75)

ATPase, Ca^{2+}-; Phospholipid (Pikuła, S. (1196) 1)

ATPase, Ca^{2+}-; Coupled enzyme; Enzyme inactivation; Enzyme kinetics (Corbalán-García, S. (1203) 45)

Calcium; Muscle; ATPase, Ca^{2+}-; Chemical modification (Wawrzynów, A. (1203) 60)

Skeletal muscle; ATPase; Modification (Bailin, G. (1208) 197)

ATPase, Ca^{2+}-; Vanadate oligomer; (Rabbit skeletal muscle) (Aureliano, M. (1221) 259)

Calsequestrin; Butyric acid; Calcium ion storage; Calcium ion release (Papazafiri, P. (1223) 333)

ATPase, Ca^{2+}-; Cytosolic phosphorylation potential; Ventricular myocardium; Caffeine; Ryanodine; Pyruvate (Mallet, R.T. (1224) 22)

Sarcoplasmic reticulum vesicle
Dibucaine; Local anesthetic; Anesthetic; Fluorescence (Louro, S.R.W. (1189) 243)

Sarcosine
Glycine transport; Sodium chloride dependence; Stoichiometry; GLYT 1; Calmodulin antagonist; (Choriocarcinoma cell) (Liu, W. (1194) 176)

Saturation transfer
Oxidative phosphorylation; Phosphate-ATP flux; Glycolysis; ATP; NMR, ^{31}P-; (Sheep myocardium) (Portman, M.A. (1185) 221)

Savitzky-Golay algorithm
pH; BCECF; Kinetics; Smoothing; Derivative; Caco-2 cell; (Intestine) (Watson, A.J.M. (1193) 316)

Scanning calorimetry
Bilayer; Indocarbocyanine; Partitioning; Phospholipid; Thermodynamics; Regular solution (Spink, C.H. (1191) 164)

Scanning tunneling microscopy
Synthetic melanin; Protomolecule; X-ray diffraction; Molecular modeling (Zajac, G.W. (1199) 271)

Scatchard analysis
Cis-unsaturated fatty acid; Fluorescence; Circular dichroism (Van Kuiken, B.A. (1214) 148)

Scatter factor
Hepatocyte growth factor; Nucleotide sequence; cDNA cloning; (Mouse) (Liu, Y. (1216) 299)

Schiff base
Bacteriorhodopsin; Retinal; Photocycle (Tittor, J. (1187) 191)

Macrophage; Oxidized LDL; Aggregation; Fluorescent product (Maeba, R. (1215) 79)

Sclerotization
Cuticle; *N*-Acetyldopamine; Cross-link; (*L. migratoria*) (Wybrandt, G.B. (1201) 15)

Screening
Lipase; Enzyme purification; Thermophilic; Aggregate; (*B. thermocatenulatus*) (Schmidt-Dannert, C. (1214) 43)

SDS micelle
α-Tocopherol; α-Tocopheroxyl radical; Antioxidant; Solvent effect; ESR; Lipid peroxidation; Liposomal membrane (Iwatsuki, M. (1200) 19)

SDS-PAGE
Surfactin synthetase multi-enzyme complex; Western blotting; (*B. subtilis*) (Galli, G. (1205) 19)

Sea urchin
Histone H3.3; mRNA; (*P. lividus* embryo) (Fucci, L. (1219) 539)

SecE
NusG; Nucleotide sequence; (*S. griseus*); (*S. coelicolor*A3(2)) (Miyake, K. (1217) 97)

Secondary solute transport
Solute translocation; Transport protein; Carrier mechanism; Bacterium (Poolman, B. (1183) 5)

Secondary structure
Photosystem II; Circular dichroism; Protein structure; Oxygen evolving complex (Xu, Q. (1188) 427)

Motilin; Peptide hormone; Circular dichroism; Phospholipid vesicle (Backlund, B.-M. (1190) 337)

Pore-forming toxin; Primary structure; Protein–lipid interaction (Belmonte, G. (1192) 197)

α-Actinin; Calcium binding; Flow dialysis; (Chicken gizzard) (Wenegieme, E.F. (1205) 308)

FTIR; Reverse micelle; α-Chymotrypsin (Qinglong, C. (1206) 247)

Cardiac sodium channel; Circular dichroism; Cytosolic linker; Epitope mapping; Sodium ion inactivation; Site-directed antibody (Beck, W. (1206) 263)

Tertiary structure; Creatine kinase; Fluorescence (Grossman, S.H. (1209) 19)

Differential screening; Cell cycle; RNA recognition motif; DNA-binding motif (Schmidt, G. (1216) 317)

Ribosomal RNA; RNA structure; rRNA sequence; Ribosome; (Mosquito) (Kjer, K.M. (1217) 147)

Large ribosomal subunit RNA; 2′-*O*-Methylation; ribosomal RNA; RNA structure; Methylation; (*X. laevis*) (Ajuh, P.M. (1219) 89)

Secondary structure model
rRNA, 16S; SSU; Thermophile (Saul, D.J. (1217) 211)

Second messenger
Calcium ion oscillation; Hormone induction; Signal transduction; Cytosolic calcium (Stucki, J.W. (1183) 453)

Secretagogue; Amylase secretion; Signal transduction; ATPase, Ca^{2+}- (Metz, D.C. (1220) 199)

Signal transduction; Olfactory neuron; Odorant receptor; Kinase (Breer, H. (1224) 277)

Second messenger pathway
Parathyroid hormone-related protein; cyclic AMP; Protein kinase C; (Human lung) (Emly, J.F. (1220) 193)

Second messenger system
Hepoxilin A_3; Hepoxilin B_3; Calcium ion; Potassium ion (Pace-Asciak, C.R. (1215) 1)

Secretagogue
Amylase secretion; Signal transduction; Second messenger; ATPase, Ca^{2+}- (Metz, D.C. (1220) 199)

Secretion
Lysolecithin; Chromogranin (Egger, C. (1211) 277)

Annexin; Cell growth; Transformation; Cell-cell contact (Theobald, J. (1223) 383)

Calpain; Protein kinase C; Platelet; Down-regulation (Patel, Y. (1224) 480)

Secretory granule
Pancreatic islet; GTPase; G protein; Insulin secretion (Kowluru, A. (1222) 348)

G protein; Insulin secretion; Lipid messenger; Pancreatic islet; GTPase (Kowluru, A. (1222) 360)

Secretory protein
Retinoid; Epididymis; Androgen (Regalado, F. (1200) 235)

Secretory vesicle
Cytoskeleton; NADPH oxidase; Desensitization; Signal transduction; Calcium ion, intracellular; (Leukocyte) (Lundqvist, H. (1224) 43)

Seed germination
β-Glucosidase; Cellobiase; Amino acid sequence; Seed maturation; (*Hordeum vulgare*) (Simos, G. (1199) 52)

Seedling
Cytochrome *P*-450; Gene family; (*S. melongena*) (Toguri, T. (1216) 165)

Seed maturation
β-Glucosidase; Cellobiase; Amino acid sequence; Seed germination; (*Hordeum vulgare*) (Simos, G. (1199) 52)

Seed viability
Wheat seed; Embryo cell membrane; EPR; Spin label; Hydration-dehydration effect (Golovina, E.A. (1190) 385)

Selectable marker
Hypoxanthine-phoshoribosyltransferase; Embryonal stem cell; (*E. coli*); (Murine fibroblast) (Spring, K.J. (1218) 158)

Selection
N-Glycosylation site; Efficiency; Glucotriose unit; Exoglucanase; (*S. cerevisiae*) (Muñoz, M.D. (1201) 361)

Selective modification
Uridine phosphorylase; Uridine binding site; Fluorescein 5′-isothiocyanate; (*E. coli*) (Komissarov, A.A. (1205) 54)

Selective uptake
Lipoprotein; Receptor; Cholesteryl ester; Lipid; Binding; (Human); (HepG2 cell) (Brissette, L. (1213) 5)

Selenium
Mitochondrion; Phospholipid hydroperoxide; Glutathione peroxidase; Glutathione; (Rat testis) (Godeas, C. (1191) 147)

Phosholipid hydroperoxide glutathione peroxidase; Glutathione; Glutathione peroxidase; (Testis); (Rat) (Roveri, A. (1208) 211)

Gene regulation; Regulatory element; Nuclear protein; Antioxidant (Christensen, M.J. (1225) 338)

Selenoprotein
Monoclonal antibody; Immunoaffinity chromatography; Heparin agarose; Radioimmunoassay; (Human plasma) (Åkesson, B. (1204) 243)

Self-assembled lipid bilayer
Lipid membrane; Langmuir-Blodgett film; Vesicle; Surface plasmon resonance (Salamon, Z. (1195) 267)

Self-association
Apo A-I; Reconstituted HDL; Co-solvent; Circular dichroism; Fluorescence (Leroy, A. (1212) 285)

Self-organization
Photosynthesis; Chlorophyll; Micelle; Aggregation; Detergent action (Gottstein, J. (1183) 413)

Semen
cDNA sequence; cDNA cloning; Acrosin; (Rabbit) (Richardson, R.T. (1219) 215)

Semiconductor technology
Dielectrophoresis; Electrorotation; Ultramicroelectrodes; Animal/plant cells; Transmembrane potential (Fuhr, G. (1201) 353)

Seminal plasmin
Mammalian cell lysis; Calcium ion (Murti, T.R. (1221) 109)

Seminolipid
Sulfolipid; Glycolipid; Sulfatide; Myelin; Spermatozoon (Vos, J.P. (1211) 125)

Semiquinone
Chloroplast; Cytochrome *bf* complex; Electron transport; Q-cycle; Plastoquinone (Kramer, D.M. (1183) 72)

Chloroplast; Cytochrome *bf* complex; Electron transport; Plastoquinone; Duroquinone; Duroquinol (Kramer, D.M. (1184) 251)

Sensitivity to magnesium ion
Acetylcholinesterase; Asymmetric form; Globular form; Carbohydrate repertoire; Enzyme inhibition (Inestrosa, N.C. (1208) 286)

Sepsis
Endotoxin; Spin labeling; 5-doxylstearic acid; Lipid fluidity (Butterfield, D.A. (1225) 231)

Septic shock
Short-term continuous feeding; Icosapentaenoic acid; Polyunsaturated/saturated fatty acid ratio (P/S ratio); Icosanoid (Utsunomiya, T. (1214) 333)

Magnetometry; Organelle motion; Cytoskeleton; Phagocytosis; Clearance (Tschaikowsky, K. (1222) 323)

Sequence
Adenine nucleotide translocator; cDNA; (*Plasmodium falciparum*) (Dyer, M. (1186) 133)

Glutamate transporter; cDNA; Human brain stem; Cloning (Shashidharan, P. (1191) 393)

L-Glutamate transporter; cDNA; Brain; Pancreatic islet cell; (Human) (Manfras, B.J. (1195) 185)

Glutamate transporter; cDNA; Cerebellum; Cloning; (Human) (Shashidharan, P. (1216) 161)

RpsM(S13) mutation; Antisuppression; Translation (Faxén, M. (1218) 27)

Glucocorticoid receptor; Gene cloning; Functional assay; Expression; (*Xenopus* embryo) (Gao, X. (1218) 194)

tRNA operon; rRNA gene, 5S; Promoter; (Lactic acid bacterium) (Nilsson, D. (1219) 141)

Peptidyl-prolyl *cis-trans* isomerase; PPIase; Rotamase; Esterase; Mutant (Kok, R.G. (1219) 601)

Amelogenin; cDNA; Alternative splicing; (Rat) (Bonass, W.A. (1219) 690)

Calcium; Kinase; Calmodulin; Expression; (Rat heart) (Edman, C.F. (1221) 90)

Sequence analysis
Sphingomyelinase; Chemical modification; Amino acid residue, acidic; Homologous sequence; (*B. cereus*) (Tomita, M. (1203) 85)

Polyamine; Spermidine/spermine N^1-acetyltransferase; Gene regulation; Cloning; cDNA; (Mouse) (Fogel-Petrovic, M. (1216) 255)

Progesterone receptor gene; Steroid hormone receptor gene; Intranuclear receptor gene; (Human) (Misrahi, M. (1216) 289)

EF-1δ; Guanine-nucleotide exchange protein; Elongation factor 1; Protein synthesis; Leucine-zipper motif; (*Artemia*); (*Xenopus*) (Amons, R. (1218) 346)

Bradykinin B_2 receptor gene; Cloning; (Rat) (Wang, D.-z. (1219) 171)

Sequence comparison
cDNA; CDEI binding protein; Amino acid sequence; (Mouse) (Hanes, J. (1216) 154)

Histone H1t gene; Sequencing; Expression (Drabent, B. (1216) 311)

cDNA; Amyloid protein; Alternative splicing; Alzheimer's disease; Enzyme inhibition; (Rat) (Sandbrink, R. (1219) 167)

Elongation factor Tu; Gene cloning; (*Streptomyces*) (Van Wezel, G.P. (1219) 543)

Sequence homology
Alcohol dehydrogenase; Lignification; Molecular modeling; Dehydrogenase; Structural model (McKie, J.H. (1202) 61)

Plant lipoxygenase; cDNA-cloning; (*Lens culinaris*) (Hilbers, M.P. (1211) 239)

Fatty acid oxidation; Mitochondrial enzyme; Non-cleavable signal; Reye syndrome; Sudden infant death; (Human) (Abe, H. (1216) 304)

Metallothionein; Rodent; Cadmium resistance; Gene amplification (Yamada, K. (1219) 581)

Sequencing
Histone H1t gene; Sequence comparison; Expression (Drabent, B. (1216) 311)

Sequential double-hit model
Chlorophyll *a* fluorescence; Energy transfer; Matrix analysis; Oxygen evolution; Photosystem II (Jursinic, P.A. (1183) 281)

Serine dehydratase gene
Developmental regulation; CAT assay; Negative transcription factor; (Rat) (Noda, C. (1217) 163)

Serine-esterase
Carboxylesterase; Microsomal *N,O*-acetyltransferase; cDNA sequence; (Hamster liver) (Sone, T. (1207) 138)

Serine hydroxymethyltransferase
Cytosol; Amino acid sequence; Evolutionary relationship; (Sheep liver) (Usha, R. (1204) 75)

Serine interaction; Thermal stability; Aldimine, internal and external (Bhaskar, B. (1209) 40)

Serine interaction
Serine hydroxymethyltransferase; Thermal stability; Aldimine, internal and external (Bhaskar, B. (1209) 40)

Serine proteinase
Carboxypeptidase; Zymogen structure; Catalytic triad; Diisopropylfluorophosphate; Propeptide; (Yeast) (Sørensen, S.O. (1205) 289)

NMR, ^{3}H-; Chymotrypsin; Protein association; Protein dynamics (O'Connell, T.M. (1208) 171)

Pancreas; cDNA; Kininogenase; Kallikrein; (*Canis familiaris*) (Gauthier, E.R. (1218) 102)

Precursor; Alzheimer's disease; Brain; (Human) (Dihanich, M. (1218) 225)

Chymotrypsinogen; Psychrophilic; cDNA nucleotide sequence; (Atlantic cod) (Guðmundsdóttir, Á. (1219) 211)

Antithrombin; α2-Plasmin inhibitor; (Hep-G2 cell) (Mori, K. (1226) 300)

Serine proteinase inhibitor
PAI-1; Fluorescence spectroscopy; Circular dichroism; Ultraviolet spectroscopy; Protein conformation (Vaughan, D.E. (1202) 221)

Trypsin inhibitor; Protein structure/function; (*Erythrina*) (Teixeira, A.V. (1217) 23)

Serine/threonine kinase
RLK5; Protein phosphorylation; Receptor-like protein kinase; (*A. thaliana*) (Horn, M.A. (1208) 65)

Mos homolog; Nucleotide sequence; (*E. histolytica*) (Lohia, A. (1222) 122)

Serine/threonine kinase receptor
Transforming growth factor-β, TGF-β; TGF-β superfamily; Activin receptor; TGF-β receptor; Signaling (Attisano, L. (1222) 71)

Serotonin release
Phosphatase inhibitor; Okadaic acid; Calyculin A; (Basophilic leukemia cell); (RBL-2H3 cell); (Rat) (Sakamoto, N. (1221) 291)

Serpin
Plasminogen activator inihibitor-1; Plasminogen activator; Latency; Reactive center (Munch, M. (1202) 29)

Serum
Amyloid P component; Heparin; Glycosaminoglycan; Binding (Li, X.A. (1201) 143)

Active sensitization; Icosanoid; Membrane phospholipid; Allergen challenge; Alveolar macrophage; (Guinea-pig) (M'Rini, C. (1213) 46)

Serum albumin
α-Fetoprotein; Fetoprotein; Receptor; Fatty acid; (Lymphocyte); (Human) (Uriel, J. (1220) 231)

Genetic variant; Isoelectric focusing; Amino acid sequence; DNA sequence; Point mutation; (Human) (Galliano, M. (1225) 27)

Serum amyloid A
Isotype; Recombinant; Amyloid fibril (Yamada, T. (1226) 323)

Serum amyloid A gene
mRNA; Inflammation; Amyloidosis; Gene expression; (Mink) (Rygg, M. (1216) 402)

Serum level
Vascular endothelial growth factor; Vascular permeability factor; ELISA; (Human) (Kondo, S. (1221) 211)

Serum lipid
Iron therapy; Liver lipid; Membrane potential; Phosphorylation potential; (Rat liver mitochondria) (Masini, A. (1188) 53)

Serum transferrin
Fourier transform infrared spectroscopy; Differential scanning calorimetry; Lactoferrin; (Human); (Rabbit) (Hadden, J.M. (1205) 59)

Sex determination
Helix-loop-helix protein; DNA binding domain; Dimerization domain; Heterodimer; Myogenesis; B cell development (Murre, C. (1218) 129)

Sex difference
β-Adrenergic receptor; Guanine nucleotide binding; Regulatory protein; Adenylate cyclase; Hepatectomy, partial; (Rat hepatocyte) (Yagami, T. (1222) 257)

Shape change
Erythrocyte; Membrane; Phosphoinositide metabolism; Phosphatidylinositol 4,5-bisphosphate; Phosphatidylinositol 4-monophosphate; (Human) (Björk, J. (1191) 141)

SH2 domain
Signal transduction; Phosphatidylinositol 3-kinase; Polyphospoinositide; Protein-tyrosine kinase; SH3 domain (Varticovski, L. (1226) 1)

Phosphatidylinositol 3-kinase; SH3 domain; Receptor protein-tyrosine kinase; G-protein; Signal transduction (Fry, M.J. (1226) 237)

SH3 domain
Actin binding protein; (*S. exiguus*) (Lange, U. (1217) 214)

Signal transduction; Phosphatidylinositol 3-kinase; Polyphospoinositide; Protein-tyrosine kinase; SH2 domain (Varticovski, L. (1226) 1)

Phosphatidylinositol 3-kinase; SH2 domain; Receptor protein-tyrosine kinase; G-protein; Signal transduction (Fry, M.J. (1226) 237)

Shear stress
Platelet; Aggregation; Hepoxilin A_3; (Human) (Margalit, A. (1190) 173)

Flow; Membrane permeability; Merocyanine 540; Endothelial cell (Berthiaume, F. (1191) 209)

Hydrostatic pressure; Aggregation; (Erythrocyte) (Chen, S. (1192) 247)

Shift reagent
Iodoacetate; Ischemia (Ivanics, T. (1221) 133)

Short-chain dehydrogenase
Prostaglandin; Site-directed mutagenesis; (Human placenta) (Ensor, C.M. (1208) 151)

Short tandemly repetitive repeat sequence
nif H; Nitrogen fixation; Heterocyst; Nitrogenase reductase; (*Nostoc* 6720); (Cyanobacterium) (Beesley, C.E. (1219) 548)

Short-term continuous feeding
Icosapentaenoic acid; Polyunsaturated/saturated fatty acid ratio (P/S ratio); Icosanoid; Septic shock (Utsunomiya, T. (1214) 333)

Sialic acid
DNA replication; DNA polymerase; Ganglioside; Glycolipid (Simbulan, C.M.G. (1205) 68)

β-Adrenergic receptor; DNA synthesis; Plasma membrane; Parotid gland; (Mouse) (González Burgos, M.J. (1222) 208)

Sialosaccharide receptor
Macrophage recognition; Macrophage lectin; Thiol oxidation; Glycophorin A; (Erythrocyte); (Mouse) (Beppu, M. (1223) 47)

Sialyl oligosaccharide
Marsupial; Milk; Higher oligosaccharide; NMR, ^{1}H-; (*M. eugenii*) (Urashima, T. (1200) 64)

Sialyltransferase
Golgi complex; Glycanase; Endo F; Glycoprotein; Deglycosylation (Fast, D.G. (1202) 325)

Sickle cell anaemia
Ca-dependent K channel; KCl co-transport; Cell dehydration; Erythrocyte (Apovo, M. (1225) 255)

Side-chain cleavage enzyme of cholesterol
Cytochrome *P*-450scc; Monooxygenase; Steroid hydroxylase; Cytochrome *P*-450; Oxidoreductase (Miyatake, A. (1215) 176)

Siderophore
Lysine: N^6-hydroxylation; Flavoprotein; Oxygen activation (Thariath, A.M. (1203) 27)

Sigma factor
RpoS; KatF; DNA sequence; (*Salmonella*) (Prince, R.W. (1219) 198)

Signal attenuation
Phosphatidylcholine; Diacylglycerol; Dioctanoylglycerol; Dioctanoylethyleneglycol; Placenta; (Human) (Tóth, M. (1210) 105)

Signaling
Energy coupling; Regulation; Enzymology (Van Dam, K. (1187) 129)

Transforming growth factor-β, TGF-β; TGF-β superfamily; Activin receptor; TGF-β receptor; Serine/threonine kinase receptor (Attisano, L. (1222) 71)

Hepatocyte; Calcium entry; 2,5-Di(*tert*-butyl)hydroquinone; Thapsigargin; Inositol phosphate (Kass, G.E.N. (1223) 226)

Signal transduction
Calcium ion oscillation; Hormone induction; Second messenger; Cytosolic calcium (Stucki, J.W. (1183) 453)

Outer mitochondrial component; Energy metabolism; Mitochondrion (Brdiczka, D. (1187) 264)

Chemotaxis; Dephosphorylation; (*E. coli*); (*S. typhimurium*) (Huang, C. (1202) 297)

Cyclooxygenase-1; Cyclooxygenase-2; Osteoblast; Prostaglandin (Takahashi, Y. (1212) 217)

Phospholipase D; Lipopolysaccharide-mediated; Phorbol ester; Monocytic leukemic cell line; THP-1; U-937 (Natarajan, V. (1213) 14)

Fatty acid; Phosphatidylethanol; Phospholipase D; Protein kinase C (Del Carmen Boyano-Adánez, M. (1214) 263)

Monoamine biosynthesis; Protein kinase C regulation; Phospoholipase A_2; mRNA untranslated region (Swanson, K.D. (1216) 145)

Fibroblast growth factor; Arachidonic acid; Phosphoinositide turnover; (Swiss 3T3 cell) (Virdee, K. (1220) 171)

Secretagogue; Amylase secretion; Second messenger; ATPase, Ca^{2+}-(Metz, D.C. (1220) 199)

Protein kinase C; Phospholipase D (McKinnon, M. (1222) 109)

Cytokine regulation; Endotoxin; Liposome; Staurosporine; Sphingosine; (Rat) (Tschaikowsky, K. (1222) 113)

Nerve growth factor; PC12 cell; Neuronal differentiation; Ras proto-oncogene function (Szeberényi, J. (1222) 187)

Respiratory burst; Tyrosine phosphorylation; Macrophage; Phorbol myristate acetate (Green, S.P. (1222) 241)

Phorbol ester; Nuclear protein kinase C (Frawley, Jr., B.P. (1222) 301)

Protein kinase C; Protein kinase C inhibitor; cDNA (Simpson, G.G. (1222) 306)

Mandibular condylar chondrocyte; Mechanical stress; Protein phosphorylation; Precartilage chromatin protein; G protein, small (Basdra, E.K. (1222) 315)

Autocrine motility factor; Cell motility; Protein kinase inhibitor (Kanbe, K. (1222) 395)

src kinase; Tyrosine phosphorylation; Mass spectroscopy (Amrein, K.E. (1222) 441)

Nucleoside diphosphate kinase; GTP-binding protein; (*Avena sativa*) (Sommer, D. (1222) 464)

Endotoxin; Cellular receptor; Tyrosine kinase; Retroviral vector; (Mouse) (LeGrand, C.B. (1223) 36)

Protein kinase C; Neomycin; Medium acidification; (*S. cerevisiae*) (Brandão, R.L. (1223) 117)

Poly(ADP-ribose)polymerase; Protein kinase; Phorbol myristate acetate; Phytohemagglutinin; Phosphorylation; (Lymphocyte) (Bauer, P.I. (1223) 234)

Cytoskeleton; NADPH oxidase; Secretory vesicle; Desensitization; Calcium ion, intracellular; (Leukocyte) (Lundqvist, H. (1224) 43)

Olfactory neuron; Odorant receptor; Second messenger; Kinase (Breer, H. (1224) 277)

Fibroblast growth factor; Diacylglycerol; Protein kinase C (Virdee, K. (1224) 489)

lck; T-cell receptor; Monoclonal antibody; Microinjection (Nakamura, K. (1224) 495)

Receptor; Phosphatidylinositol 3-kinase (Ogawa, W. (1224) 533)

Phosphatidylinositol 3-kinase; Polyphospoinositide; Protein-tyrosine kinase; SH2 domain; SH3 domain (Varticovski, L. (1226) 1)

Phosphatidylinositol 3-kinase; SH2 domain; SH3 domain; Receptor protein-tyrosine kinase; G-protein (Fry, M.J. (1226) 237)

Silver
Monovalent cation; Modification; Sodium ion pump; NADH-quinone reductase; Argentous inhibition; (Marine bacterium); (*V. alginolyticus*) (Unemoto, T. (1183) 201)

ATPase, Na^+/K^+-; Liposome; Inhibition, potent; Reversible interaction (Hussain, S. (1190) 402)

Silver-Na^+/K^+-ATPase-liposome
Proteoliposome; ATPase-liposome; Peripheral blood mononuclear cell; Cellular uptake; Subcellular distribution (Anner, B.M. (1194) 345)

Simulated annealing
CD4 receptor; Distance geometry; Beta turn; NMR; Molecular modeling (Chang, D.-K. (1205) 262)

Simvastatin
Hepatic lipase; Cholesterol; Cholestyramine; HMG-CoA reductase; mRNA (Benhizia, F. (1211) 181)

Single channel
Cardiac sodium ion channel; Sodium ion channel; Digital signal processing technique; Hidden Markov Model processing (Saint, D.A. (1196) 131)

Single-channel activity
Alkaline-induced ion-selective activity; Mitochondrial channel; Mitochondrial inner membrane; Permeability; Patch clamp; (Mitoplast) (Antonenko, Yu.N. (1194) 247)

Single-channel conductance
Magnetic field; Potassium ion channel, ATP-sensitive (Wang, K.-W. (1195) 218)

Single copy gene
Cloning; cDNA; Gonadotropin-releasing hormone; Anti-idiotypic antibody; Novel protein; (Rat pituitary gland) (Levi, L. (1216) 342)

Single crystal
Photosynthetic reaction center; EPR; ENDOR; Primary electron donor; Spin density distribution; Molecular orbital theory; (*Rb. sphaeroides*) (Lendzian, F. (1183) 139)

Single strand
CAT assay; Transcriptional regulatory element; DNA binding protein; Double strand; N-*myc* (Imamura, Y. (1216) 273)

Single-strand break
5-Aminolevulinic acid; Reactive oxygen species; DNA damage; Plasmid DNA; Acute intermittent porphyria; Liver-cell carcinoma (Onuki, J. (1225) 259)

Single-stranded nucleic acid binding protein
Ribosomal protein L4; Histone H2B; (Yeast) (Cusick, M.E. (1217) 31)

Singlet oxygen
Quenching; Hydroquinone; Biological system (Mukai, K. (1183) 323)

Photosystem II complex; Photoinhibition; Pigment photobleaching; Protein degradation (Mishra, N.P. (1186) 81)

D1 protein degradation; Photoinhibition; Photosystem II complex (Mishra, N.P. (1187) 296)

Photosensitization; Plasma membrane; Photodynamic therapy; Membrane potential; Glucose transport; Proline transport; 5′-Nucleotidase (Kochevar, I.E. (1196) 172)

Hematoporphyrin; Photosensitization; Triplet state; Vicinal water (Van-Steveninck, J. (1201) 23)

Photosensitizer; Guanine damage; 8-Oxo-7,8-dihydro-2′-deoxyguanosine; DNA (Kvam, E. (1217) 9)

Heavy atom effect; Liposomes; Photophysics; Photosensitization; Cyanine dyes (Krieg, M. (1999) 149)

Singlet-triplet quenching
Picosecond transient absorption; Energy transfer; Reaction center; Anisotropy; (*H. chlorum*) (Van Noort, P.I. (1184) 21)

Site-directed antibody
Cardiac sodium channel; Circular dichroism; Cytosolic linker; Epitope mapping; Sodium ion inactivation; Secondary structure (Beck, W. (1206) 263)

Site-directed mutagenesis
Electron transfer; Photosynthesis; Photosystem II; Chlorophyll *a* fluorescence (Roffey, R.A. (1185) 257)

Antenna; Bacteriochlorophyll-protein complex; Photosynthesis; Energy transfer; Fluorescence polarization; (*R. capsulatus*) (Olivera, L.M. (1185) 318)

Chloride transport; Palmitoylation; Oocyte; (*Xenopus*) (Kang, D. (1194) 341)

Transglutaminase; GTPase; GTPase activity (Lee, K.N. (1202) 1)

Glycerol dehydrogenase; Reactive lysine; Pyridoxal-5-phosphate; (*B. stearothermophilus*) (Paine, L.J. (1202) 235)

Cytochrome $P\text{-}450_{cam}$; Mutant; Electron transfer; (*Pseudomonas putida*) (Yasukochi, T. (1204) 84)

Annexin I; Phospholipid; Calcium binding (Travé, G. (1205) 215)

Cytochrome *P*-450; Arachidonic acid; Icosatrienoic acid; *P*-450 2B subfamily; Heterologous expression; Structure–function relationship (Laethem, R.M. (1206) 42)

Creatine kinase; Kinase; Mutagenesis (Lin, L. (1206) 97)

β-Lactoglobulin; Retinol binding; Conformational stability; Structural perturbation; Conserved residue (Katakura, Y. (1207) 58)

Endoglucanase; Active site; (*Bacillus*) (Ozaki, K. (1207) 159)

Acylphosphatase; Acylphosphatase active site; Recombinant protein; NMR, ^{1}H-; (Muscle) (Taddei, N. (1208) 75)

Prostaglandin; Short-chain dehydrogenase; (Human placenta) (Ensor, C.M. (1208) 151)

Reversible unfolding; Irreversible inactivation; Autoproteolysis; Disulfide bond; (*A. oryzae*) (Tatsumi, H. (1208) 179)

Arachidonic acid; 12-Lipoxygenase; Prokaryotic expression; Iron-binding domain; Positional specificity; (Porcine) (Suzuki, H. (1210) 308)

Acid β-galactosidase; Polymorphism; Catalytic activity; (Mouse) (Hara, Y. (1217) 49)

Restriction enzyme; Modified oligonucleotide; Protein–nucleic acid interaction; DNA recognition (Wenz, C. (1219) 73)

Site directed mutant
Light-harvesting complex; Amino acid mutation; Electrochromic behavior; Carotenoid absorbance; Bacteriochlorophyll; B800; (*Rb. sphaeroides*) (Crielaard, W. (1183) 473)

Site selection
Photosystem I; Spectroscopy; Polarized fluorescence; (*Synechocystis*) (Gobets, B. (1188) 75)

Site-specific modification
B subunit; Cholera toxin; Interchain hybrid; Receptor binding site (De Wolf, M.J.S. (1223) 285)

Site-specific mutagenesis
Plasminogen activation; Staphylokinase (Schlott, B. (1204) 235)

Myoglobin; EXAFS; Tyrosine-64; Heme iron ligand; (Horse heart) (Tang, H.-L. (1206) 90)

DNA polymerase; DNA replication; Bacteriophage; (*E. coli*) (Zhu, W. (1219) 260)

Site specific mutant
Light-harvesting complex; Binding site; Bacteriochlorophyll *a*; B800; CD; (*Rb. sphaeroides*) (Visschers, R.W. (1183) 483)

Size-exclusion chromatography
Urea and alkylurea denaturation; Unfolded state; Molten globule intermediate; Stefin, A and B (Žerovnik, E. (1209) 140)

Size heterogeneity
Polyubiquitin gene; Evolutionary conservation; (Chinese hamster) (Nenoi, M. (1204) 271)

Size increase
Vesicle self-assembly in vitro; Cholate dialysis; Ultra thin-section; Homogeneous single-walled vesicle; ATPase, Na^+/K^+-; Multilayer; Carboxyfluorescein (Volet, B. (1191) 1)

Skeletal muscle
Saponin-skinned fiber; Oxidative phosphorylation; Caffeine; Calcium; (Human) (Khuchua, Z. (1188) 373)

Patch clamp; Potassium ion channel; Adenosine triphosphate; Calcium dependent inactivation; (Mouse) (Hehl, S. (1190) 257)

Liver; Starvation; Thyroid hormone; Cathepsin; Lysosome (Belkhou, R. (1199) 195)

Sarcoplasmic reticulum; ATPase; Modification (Bailin, G. (1208) 197)

Phosphate transport; Insulin; IGF-1; Myoblast (Polgreen, K.E. (1223) 279)

Glucose metabolic index; Hyperglycemia; Insulinopenia; Myocardium; Diaphragm (Kainulainen, H. (1225) 275)

Skeletal muscle α-actinin
Conformation of α-actinin (Kuroda, M. (1205) 97)

Skeletal muscle bioenergetics
CK/PCr system; Creatine kinase deficiency; Phosphocreatine; β-Guanidinopropionic acid; Muscle; (M-CK-deficient mice) (Van Deursen, J. (1185) 327)

Skeletal muscle myosin
Regulatory light chain; Actin; Limited proteolysis; Myosin phosphorylation (Stępkowski, D. (1209) 253)

Skeleton
Aggrecan; Cartilage; Collagen; Development; Proteoglycan; Tenascin; (Mouse) (Glumoff, V. (1219) 613)

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Hepatocyte; Calcium ion inflow; Vasopressin; Gadolinium; (Rat) (Fernando, K.C. (1222) 383)

Skin
Collagen type V; Bone; Propeptide; Amino-acid sequence (Niyibizi, C. (1203) 304)

S-layer gene
Archaea; Repeat; (*Methanosarcina mazei*) (Yao, R. (1219) 697)

Slip
Coupling; Rate limitation; Metabolic control analysis; Enzyme thermodynamics; Enzyme kinetics (Kholodenko, B.N. (1208) 294)

Slippage
Active transport; Co-transport mechanisms; Substrate binding force; Uncoupled transport (Krupka, R.M. (1183) 105)

Slow-binding inhibition
Thymidylate synthase; Covalent complex (Liu, L. (1209) 89)

Small angle X-ray diffraction
Cardiolipin; Lipid polymorphism; Acyl chain packing; NMR; Wide angle X-ray diffraction; (*E. coli*) (Killian, J.A. (1189) 225)

Small-angle X-ray diffraction
X-ray diffraction, small-angle; DSC; Drug-membrane interaction; Steroid; Alphaxalone; Δ^{16}-Alphaxalone (Mavromoustakos, T. (1194) 69)

Small-angle X-ray scattering
Antineoplastic; Ether lipid; Lipid polymorphism; Quasi-elastic light scattering; X-ray scattering, small-angle (Maurer, N. (1192) 167)

Small cytoplasmic RNA
Autoantigen; Ribonucleoprotein; Ro (SS-A); Y RNA (Pruijn, G.J.M. (1216) 395)

Small G-proteins
Platelets; rap1B; Cytoskeleton; cAMP; Concanavalin A (Ramaschi, G. (1199) 20)

Small GTP-binding protein
Protein methylation; Kidney cortex (Gingras, D. (1204) 149)

Small intestine
Glucose absorption; Lactate excretion; Glucose translocation; Jejunum; Once-through perfusion; Respiration rate; (Rat) (Hutchison, J.D. (1200) 129)

Calcium-binding protein; Duodenum; Ubiquitin; Calcium transport; (Rat) (Hubbard, M.J. (1200) 191)

Glycoprotein; Fucosylation; Suckling; Prolonged-nursing; Weaning; Dietary fiber (Tardy, F. (1201) 41)

Glutathione *S*-transferase; UDPglucuronosyltransferase; (Rat) (Dannenberg, A.J. (1210) 8)

PAF; NF-κB; Competitive PCR (Tan, X. (1215) 157)

Putrescine; Uptake; Brush-border membrane; Tumor; Polyamine; (Rat tissue) (Brachet, P. (1227) 161)

Small intron
Integral membrane protein; Surface molecule; cDNA sequence; (*Schistosoma mansoni*) (Markovics, A. (1218) 273)

Small lipid-poor particle
Apolipoprotein A-I; Egg yolk phosphatidylcholine; Sodium oleate; Complex reassembly (Luna-Chavez, C. (1215) 141)

Smooth muscle
ATP-diphosphohydrolase; Apyrase; Purine nucleotide (Picher, M. (1200) 167)

Caldesmon; Thin filament; (Vertebrate) (Lehman, W. (1203) 53)

Myosin light-chain phosphatase; Myosin dephosphorylation; Affinity chromatography; Protein purification; Protein characterization; (Turkey gizzard) (Nowak, G. (1203) 230)

Smooth muscle cell
Elastin; Angiotensin II; Platelet-derived growth factor (Tokimitsu, I. (1207) 68)

Cholesterol efflux; Cholesterol translocation; Cell modulation; Atherosclerosis (Dusserre, E. (1212) 235)

Fibroblast; Liposome; Lipoprotein lipase; Familial hypercholesterolemia; β VLDL (Stein, O. (1212) 305)

Cell proliferation; Inhibitor; Thioallyl compound; Endothelial cell; *S*-Allylmercaptocysteine (Lee, E.S. (1221) 73)

Smoothing
pH; BCECF; Kinetics; Savitzky-Golay algorithm; Derivative; Caco-2 cell; (Intestine) (Watson, A.J.M. (1193) 316)

S49 murine lymphoma cell
Ethanol; Stimulatory GTP-binding regulatory protein; Gs; Cycloheximide; Puromycin (Nakamura, J. (1209) 111)

Snake venom
Phospholipase A_2; Myotoxin; Liposome; Membrane leakage (Pedersen, J.Z. (1190) 177)

Snap-back model
Muscle contraction; Molecular model (Elliott, G.F. (1200) 109)

Sn-protoporphyrin IX
Heme oxygenase; Oxidative stress; Cobalt chloride; Bilirubin; Liver; (Rat) (Llesuy, S.F. (1223) 9)

S1 nuclease mapping
Cuticle protein; Gene cloning; Northern hybridization; Juvenile hormone; (*B. mori*) (Nakato, H. (1218) 64)

Sodium
Calcium; Fluorescent dye technique; Fura-2; Platelet; (Human) (Tepel, M. (1220) 248)

Sodium bioenergetics
Nitrate transport; Symport mechanism; Cyanobacterium (Rodríguez, R. (1187) 250)

Sodium–calcium ion exchange
Photoreceptor; Rod outer segment; Protein association; Vesicle sidedness; (Bovine) (Huppertz, B. (1189) 119)

Sodium–calcium ion exchanger
cDNA cloning; (Guinea pig); (*X. laevis* oocyte) (Tsuruya, Y. (1196) 97)

Sodium channel
Anesthetic; Pentobarbital; Channel activation gating (Rehberg, B. (1194) 215)

Venom characterization; Neurotoxin; (*Tityus serrulatus*) (Arantes, E.C. (1199) 69)

Alveolar epithelium; Amiloride; Sodium transport; (Fetal guinea pig lung) (Fyfe, G.K. (1224) 355)

Sodium chloride dependence
Glycine transport; Stoichiometry; Sarcosine; GLYT 1; Calmodulin antagonist; (Choriocarcinoma cell) (Liu, W. (1194) 176)

Sodium-conducting channel
Patch clamp; Carcinoma cell (Negulyaev, Yu.A. (1194) 171)

Sodium cotransport
Proximal tubule; Brush-border membrane; Phosphate transport; (Superficial rat renal cortex); (Juxtamedullary rat renal cortex) (Yusufi, A.N.K. (1191) 117)

Sodium dependence
Taurine; Taurine transport; Central nervous system (Chung, S.-J. (1193) 10)

Sodium-dependent glucose transport
Cycasin transport; Glucose transporter; Methylazoxymethanol; (Kidney); (Intestine) (Hirayama, B. (1193) 151)

Sodium-dependent transport system
Systemic carnitine deficiency; Reabsorption of carnitine; (Animal model) (Horiuchi, M. (1226) 25)

Sodium dodecyl sulfate
Deoxyribonuclease; Hepatopancreas; Protein denaturation; Protein renaturation; (Shrimp) (Lin, J.-L. (1209) 209)

Sodium efflux
Sodium transport; ATPase, Na^+-; Sodium ion/proton antiporter (Rodríguez-Navarro, A. (1187) 203)

Sodium/glucose cotransporter
EGF; ATPase, Na^+/K^+-; (Rat small intestine) (Horváth, K. (1222) 215)

***trans* Sodium inhibition**
Oleic acid; Sodium ion/D-glucose transport; Brush-border membrane; Membrane fluidity; Lipid–protein interaction; (Kidney) (Wagner, S. (1190) 309)

Sodium ion channel
Amiloride sensitivity; Protein trafficking; Insulin; Aldosterone; Forskolin; Protein synthesis (Coupaye-Gerard, B. (1190) 449)

Sodium ion current; Sodium ion regulation; Apical membrane; Kinetics (Machlup, S. (1194) 303)

Cardiac sodium ion channel; Single channel; Digital signal processing technique; Hidden Markov Model processing (Saint, D.A. (1196) 131)

Sodium ion conductance
Sodium ion–proton exchange; (Human distal colon); (Human proximal colon) (Dudeja, P.K. (1193) 67)

Sodium ion coupled transport
Endothelial cell; Amino acid analog; Ouabain; Amiloride (Lau, Y.-T. (1194) 118)

Sodium ion current
Sodium ion channel; Sodium ion regulation; Apical membrane; Kinetics (Machlup, S. (1194) 303)

Sodium ion cycle
Sodium oxidase; ATPase, Na^+-; Sodium ion motor; Methanogen (Skulachev, V.P. (1187) 216)

Sodium ion cycling
Membrane transport; Ion pump; Proton cycling; Citrate carrier (Lolkema, J.S. (1187) 211)

Sodium ion dependent transport
Nucleoside uptake; ATPase, Na^+/K^+-; Liver plasma membrane vesicle; (Zucker rat) (Ruiz-Montasell, B. (1196) 45)

Sodium ion dependent uptake
α-Aminoisobutyric acid transport; Proton dependent influx; Proximal tubule; (Human kidney cells) (Jessen, H. (1190) 279)

Taurine; β-Alanine; Anion dependence; Stoichiometry; Proximal tubule; (Human); (Kidney cell) (Jessen, H. (1194) 44)

Sodium ion/D-glucose transport
Oleic acid; *trans* Sodium inhibition; Brush-border membrane; Membrane fluidity; Lipid–protein interaction; (Kidney) (Wagner, S. (1190) 309)

Sodium ion efflux
Zinc; Microinjection; cyclic AMP; Forskolin; Barnacle fiber (Xie, H. (1195) 51)

Sodium ion/glucose cotransport
cDNA; Nucleotide sequence (Hitomi, K. (1190) 469)

Glucose transport; Phlorizin; Tunicamycin; Apical membrane; (LLC-PK_1 kidney epithelial cell) (Wu, J.-S.R. (1192) 289)

Glucose transport; Phlorizin; Plasma membrane vesicle (Oelberg, D.G. (1194) 92)

Sodium ion/glucose cotransporter
Cotransport; Glucose transport; cDNA sequence; (Kidney) (Pajor, A.M. (1194) 349)

Sodium ion inactivation
Cardiac sodium channel; Circular dichroism; Cytosolic linker; Epitope mapping; Secondary structure; Site-directed antibody (Beck, W. (1206) 263)

Sodium ion motor
Sodium ion cycle; Sodium oxidase; ATPase, Na^+-; Methanogen (Skulachev, V.P. (1187) 216)

Sodium ion/nucleoside cotransport
Nucleoside; Choroid plexus (Wu, X. (1191) 190)

Sodium ion/phosphate cotransporter
Immunodetection; Anti-peptide antibody; Kidney; (Rat); (Rabbit); (Bovine) (Delisle, M.-C. (1190) 289)

Sodium ion/proton antiport
Plasma membrane electron transport; Bombesin; Growth control; Transferrin (Sun, I.L. (1221) 206)

Sodium ion/proton antiporter
pH regulation; Halotolerance; Transport; Membrane protein (Padan, E. (1185) 129)

Sodium transport; Sodium efflux; ATPase, Na^+- (Rodríguez-Navarro, A. (1187) 203)

Molecular biology; pH homeostasis; Sodium ion sensitivity; (*E. coli*) (Padan, E. (1187) 206)

DNA sequence; Marine bacterium; (*V. alginolyticus*) (Nakamura, T. (1190) 465)

Sodium ion–proton exchange
Sodium ion conductance; (Human distal colon); (Human proximal colon) (Dudeja, P.K. (1193) 67)

Sodium ion–proton exchanger
Isoform NHE-3; Localization; (Rabbit kidney); (Canine kidney) (Soleimani, M. (1195) 89)

Sodium ion–proton exchanger gene
Transcriptional regulation; Regulatory element; Nuclear activity; (Human) (Kolyada, A.Y. (1217) 54)

Sodium ion pump
Monovalent cation; Modification; NADH-quinone reductase; Argentous inhibition; Silver; (Marine bacterium); (*V. alginolyticus*) (Unemoto, T. (1183) 201)

Sodium ion regulation
Sodium ion channel; Sodium ion current; Apical membrane; Kinetics (Machlup, S. (1194) 303)

Sodium ion sensitivity
Sodium ion/proton antiporter; Molecular biology; pH homeostasis; (*E. coli*) (Padan, E. (1187) 206)

Sodium ion transport
Lithium ion transport; Hypersensitivity, Na^+ and Li^+; Ergosterol mutant; Yeast (Welihinda, A.A. (1193) 107)

Sodium nitroprusside
Glyceraldehyde-3-phosphate dehydrogenase; Nitric oxide; ADP ribosylation (Vaidyanathan, V.V. (1203) 36)

Sodium oleate
Apolipoprotein A-I; Egg yolk phosphatidylcholine; Complex reassembly; Small lipid-poor particle (Luna-Chavez, C. (1215) 141)

Sodium oxidase
Sodium ion cycle; ATPase, Na^+-; Sodium ion motor; Methanogen (Skulachev, V.P. (1187) 216)

Sodium/phosphate cotransport
Parathyroid hormone; cyclic AMP; Calcium ion, intracellular concentration; Protein kinase A; Protein kinase C; Myelin basic kinase; (Kidney cell); (Opossum) (Quamme, G. (1223) 107)

Sodium/potassium/chloride cotransport
Protein kinase C; Regulatory volume increase; Regulatory volume decrease (Larsen, A.K. (1222) 477)

Sodium/potassium pump
ATPase, Na^+/K^+-; Vanadate; Sodium pump; Cation transport; Protomer interaction (Sachs, J.R. (1193) 199)

Sodium pump
ATPase, Na^+/K^+-; Vanadate; Sodium/potassium pump; Cation transport; Protomer interaction (Sachs, J.R. (1193) 199)

Inositol; HL-60 cell; Protein kinase C (Allard, J. (1220) 66)

Sodium transport
Sodium efflux; ATPase, Na^+-; Sodium ion/proton antiporter (Rodríguez-Navarro, A. (1187) 203)

Corneal endothelium; Bicarbonate transport; Membrane vesicle; Drug effect (Wigham, C.G. (1196) 88)

Alveolar epithelium; Amiloride; Sodium channel; (Fetal guinea pig lung) (Fyfe, G.K. (1224) 355)

Soleus muscle
Fatty acid binding protein; Phosphorylation; Insulin receptor; (Rat) (Prinsen, C.F.M. (1215) 103)

Solubilization
NBTI-sensitive nucleoside transport; Nucleoside transport; Kidney; Adenosine; Nitrobenzylthioinosine; Brush-border membrane (Ciruela, F. (1191) 94)

Bradykinin receptor; Angiotensin-converting enzyme; [^{3}H]Bradykinin binding; Lung; (Guinea pig) (Trifilieff, A. (1191) 109)

Liposome; Phosphatidylcholine; Cholesterol; Enzymatic method; Triton X-100 (Nagayasu, A. (1194) 12)

Nonionic detergent; Lipid–detergent interaction; Lipid; Partition coefficient; Laurdan (Heerklotz, H. (1196) 114)

Detergent; Recombinant *E. coli*; Alkane monooxygenase; Overexpression (Peters, J. (1196) 145)

PACAP receptor; Pig brain; Deglycosylation; Desialylation; Sulfhydryl group (Cao, Y.-J. (1222) 432)

Solute carrier
ADP/ATP carrier; Mitochondrion; Metabolite exchange; Structure–function (Klingenberg, M. (1187) 241)

Solute translocation
Secondary solute transport; Transport protein; Carrier mechanism; Bacterium (Poolman, B. (1183) 5)

Solute transport
Membrane transport; Transport system; Carrier protein (Krämer, R. (1185) 1)

Solution conformation
2D-NMR; Distance geometry; Dodecapeptide hormone; Dynamical simulated annealing; Urotensin II (Bhaskaran, R. (1199) 115)

Solution structure
Insulin A-chain; NMR, ^{1}H-; (Bovine) (Hawkins, B.L. (1209) 177)

Solvatochromism
Fluorescence; Electrochromism; Membrane voltage; Hemicyanine dye; Lipid bilayer; Glycerol monooleate (Fromherz, P. (1191) 299)

Solvent accessibility
Proteolysis; Structure–function relationship; Neurotoxin; (Sea anemone) (Monks, S.A. (1207) 93)

Solvent effect
α-Tocopherol; α-Tocopheroxyl radical; Antioxidant; ESR; Lipid peroxidation; Liposomal membrane; SDS micelle (Iwatsuki, M. (1200) 19)

Somatic
cDNA; Phosphorylation; Pyruvate dehydrogenase complex; RNAase protection; (Testis) (Cullingford, T.E. (1216) 149)

Sonication
Surface activity; Phospholipid; SUV; Vesicle (Qiu, R. (1191) 343)

Sorbitol dehydrogenase
Polyol pathway; Aldose reductase; Diabetic complication; (Diabetic rat) (Kicic, E. (1226) 213)

Sorbitol synthesis
Aldose reductase; Glutathione; Diabetes; (Rat); (IMCD cell) (Grunewald, R.W. (1225) 39)

L-Sorbose
PTS; *sor* operon; Operon sequence; (*K. pneumoniae*) (Wehmeier, U.F. (1208) 348)

***sor* operon**
L-Sorbose; PTS; Operon sequence; (*K. pneumoniae*) (Wehmeier, U.F. (1208) 348)

Soybean
S-Adenosylmethionine decarboxylase; Polyamine; Agmatine (Choi, Y.S. (1201) 466)

Soybean lipoxygenase
Superoxide anion; Oxidative stress; NAD(P)H (Roy, P. (1214) 171)

Sp1
Promoter; LRP; NRF-1; Enhancer (Gaëta, B.A. (1219) 307)

SP-A
Pulmonary surfactant protein; SP-D; Amniotic fluid; Fetal membrane; Preterm labour; Chorioamniotic; (Human) (Miyamura, K. (1210) 303)

Phospholipid; Lipid; Cholesterol; Calcium; Adsorption; Surface film; Surface pressure; Surface tension; Film stability (Yu, S.-H. (1211) 350)

SPARC
Osteonectin regulation; Cartilage matrix; Growth factor; Cytokine; Chondrocyte (Chandrasekhar, S. (1221) 7)

SP-D
Pulmonary surfactant protein; SP-A; Amniotic fluid; Fetal membrane; Preterm labour; Chorioamniotic; (Human) (Miyamura, K. (1210) 303)

Specificity
Aspergillopepsin I; Aspartic proteinase; Trypsinogen activation; (*Aspergillus*) (Shintani, T. (1204) 257)

Enzyme; Organic solvent; Enantioselectivity; Regioselectivity (Wescott, C.R. (1206) 1)

Spectral analysis
Transmembrane potential; DiS-C_3(3); 3,3'-Dipropylthiacarbocyanine; Flow cytometry; Confocal microscopy (Plášek, J. (1196) 181)

Spectrin
Membrane skeleton; Ankyrin; Phosphatidylethanolamine; Phosphatidylserine (Białkowska, K. (1191) 21)

Cell adhesion; Fodrin; N-CAM (Woo, M.K. (1191) 173)

Erythrocyte aggregation; Erythrocyte sedimentation; Light scattering; Dextran; Diamide (Muralidharan, E. (1194) 255)

Oxidative stress; Membrane protein degradation; Membrane-bound proteinase; Band 3 protein; (Erythrocyte) (Beppu, M. (1196) 81)

Spectroelectrochemistry
Photosynthesis; Reaction center; Electron transfer; FTIR (Bauscher, M. (1183) 59)

Spectroscopy
Photosystem I; Polarized fluorescence; Site selection; (*Synechocystis*) (Gobets, B. (1188) 75)

Diphytanylglycerol diether analogue; C_{20}-C_{25}-glycerol diether analogue; Phosphatidylglyceromethylphosphate; Glycolipid bis-sulfate; FAB-MS (Matsubara, T. (1214) 97)

Sperm
Protamine; Phosphorylation; Mass spectrometry (Chirat, F. (1203) 109)

Sperm capacitation
Boar sperm; Spermadhesins; AWN; AQN-1; AQN-2; AQN-3 (Dostàlovà, Z. (1200) 48)

Spermadhesins
Boar sperm; AWN; AQN-1; AQN-2; AQN-3; Sperm capacitation (Dostàlovà, Z. (1200) 48)

Spermatogenesis
Mouse gene; Gene expression; Phosphodiesterase (Vambutas, V. (1217) 203)

Spermatozoon
Phospholipid; Asymmetry; Fluidity; Aminophospholipid translocase; (Trout) (Müller, K. (1192) 21)

Plasma membrane; Epididymis; Maturation; Phospholipid asymmetry; (Goat) (Rana, A.P.S. (1210) 1)

Sulfolipid; Glycolipid; Sulfatide; Seminolipid; Myelin (Vos, J.P. (1211) 125)

Exocytosis; Acrosome; Acrosome reaction; *N*-Acetylglucosaminidase; (Human) (Brandelli, A. (1220) 299)

Spermidine/spermine N^1-acetyltransferase
Polyamine; Gene regulation; Cloning; Sequence analysis; cDNA; (Mouse) (Fogel-Petrovic, M. (1216) 255)

Spermine
Phosphorylation; Mitochondria (Bordin, L. (1199) 266)

Ribosomal peptidyltransferase; Ribosome; Puromycin reaction; Peptide bond (Drainas, D. (1208) 55)

Glucagon; Okadaic acid; Protein dephosphorylation; (Rat hepatocyte) (Aggarwal, S.R. (1224) 311)

Spermine transport
Polyamine toxicity; Magnesium ion transport; (*S. cerevisiae*) (Maruyama, T. (1194) 289)

Spheroidene structure
Vibrational analysis; Photosynthesis; Carotenoid; Resonance Raman; Reaction center; (*Rb. sphaeroides*) (Kok, P. (1185) 188)

Sphinganine
Sphingosine; Sphingosine formation; Medium condition; (A431 cell); (NIH-3T3 fibroblast); (NG108-15 cell) (Lavie, Y. (1220) 323)

Sphingoid base
Niemann-Pick disease; Sphingosine; Human tissue; Fibroblast culture; Cholesterol (Rodriguez-Lafrasse, C. (1226) 138)

Sphingolipid
Lipid transport; Eukaryotic cell; Cholesterol; Fatty acid; Phospholipid; Membrane (Trotter, P.J. (1213) 241)

Sphingomyelin
Endocytosis; Brefeldin A; Cholesterol (Kallen, K.-J. (1191) 52)

Cholesterol; Sphingosine; Lipid transfer; Acyl-CoA cholesterol acyltransferase; Fibroblast (Härmälä, A.-S. (1210) 97)

Lipoprotein; Apo A-I; Apo A-II; Apo A-IV; LCAT; Cholesterol esterification; Phosphatidylcholine; Fatty acid composition (Duverger, N. (1211) 23)

Oocyte; Plasma membrane; Progesterone; Phospholipid; *N*-methylation; (*Rana pipiens*) (Morrill, G.A. (1224) 589)

Sphingomyelinase
Chemical modification; Amino acid residue, acidic; Homologous sequence; Sequence analysis; (*B. cereus*) (Tomita, M. (1203) 85)

Lymphocyte, T-; Jurkat T-cell; Ceramide; Sphingosine; DNA synthesis; Interleukin-2; Phorbol ester; Ionomycin; PDMP (Borchardt, R.A. (1212) 327)

Niemann-Pick disease; Ionophore; Cholesterol esterification (Sakuragawa, N. (1213) 193)

Sphingosine
Phosphatidylcholine; Phosphatidylethanolamine; DSC; NMR, ^{31}P- (López-García, F. (1194) 281)

Calcium; Acetylcholine; (Pancreas) (Pandol, S.J. (1195) 45)

Cholesterol; Sphingomyelin; Lipid transfer; Acyl-CoA cholesterol acyltransferase; Fibroblast (Härmälä, A.-S. (1210) 97)

Lymphocyte, T-; Jurkat T-cell; Ceramide; DNA synthesis; Sphingomyelinase; Interleukin-2; Phorbol ester; Ionomycin; PDMP (Borchardt, R.A. (1212) 327)

Sphingosine formation; Sphinganine; Medium condition; (A431 cell); (NIH-3T3 fibroblast); (NG108-15 cell) (Lavie, Y. (1220) 323)

Dexamethasone; NMR spectroscopy, ^{31}P-; Phospholipid metabolism; (B lymphocyte) (Ricciolini, R. (1221) 103)

Dexamethasone; Cholesterol; NMR spectroscopy; Fluorimetry; (B lymphocyte) (Miccheli, A. (1221) 171)

Cytokine regulation; Endotoxin; Signal transduction; Liposome; Staurosporine; (Rat) (Tschaikowsky, K. (1222) 113)

Fibronectin; Fibroblast; Monensin; Integrin, $\alpha_5\beta_1$-; Adhesion (Scita, G. (1223) 29)

Niemann-Pick disease; Sphingoid bases; Human tissue; Fibroblast culture; Cholesterol (Rodriguez-Lafrasse, C. (1226) 138)

Sphingosine formation
Sphingosine; Sphinganine; Medium condition; (A431 cell); (NIH-3T3 fibroblast); (NG108-15 cell) (Lavie, Y. (1220) 323)

Sphingosylphosphorylcholine
Protein phosphorylation; Protein kinase; Cytosol (Pushkareva, M.Yu. (1221) 54)

Spice principle
$n-3$ Fatty acid; Superoxide anion; Hydrogen peroxide; Nitrite radical; Macrophage (Joe, B. (1224) 255)

Spinal cord
Ganglioside; Dorsal root ganglion; Peripheral nerve; Motor neuron; Development; (Rabbit) (Kusunoki, S. (1214) 27)

Peripheral nerve; Myelin; Axon; Ganglioside; Acidic glycosphingolipid (Svennerholm, L. (1214) 115)

Neurocalcin; Calcium binding protein; EF hand; Dorsal root ganglion; Muscle spindle (Okazaki, K. (1223) 311)

Spin density distribution
Photosynthetic reaction center; Single crystal; EPR; ENDOR; Primary electron donor; Molecular orbital theory; (*Rb. sphaeroides*) (Lendzian, F. (1183) 139)

Spin label
Glycosphingolipid; Interdigitation; Lipid bilayer; EPR (Boggs, J.M. (1189) 233)

Wheat seed; Embryo cell membrane; EPR; Hydration-dehydration effect; Seed viability (Golovina, E.A. (1190) 385)

Carotenoid pigment; EPR; Lecithin; Model membrane; Photosynthesis (Strzałka, K. (1194) 138)

DPPC; Chaotropic anion; EPR (Bartucci, R. (1195) 229)

Transmembrane potential; Lipid bilayer; EPR (Jo, E. (1195) 245)

Nitric oxide; Nitroxide; Electron spin resonance; Liposome (Singh, R.J. (1201) 437)

Spin labeling
Erythrocyte; High pressure behavior; Hemolysis; Thiol group; Protein–protein interaction (Yamaguchi, T. (1195) 205)

Endotoxin; Sepsis; 5-doxylstearic acid; Lipid fluidity (Butterfield, D.A. (1225) 231)

Spin-label oximetry
Electron transport; Chloroplast (Ligeza, A. (1186) 201)

Spin-lattice relaxation
Photosynthesis; EPR; Electron spin polarization; Radical pair mechanism (Van den Brink, J.S. (1185) 177)

Spin trapping
Nitric oxide; Nitric oxide synthase; Cyclic GMP (Pou, S. (1201) 118)

Free radical; Hemoglobin; EPR; Electron transfer; Hydrogen peroxide (McArthur, K.M. (1202) 173)

Hydroxyl radical; Thiyl radical; Chromium(V); Hydrogen peroxide; Lipid hydroperoxide (Shi, X. (1226) 65)

Splenocyte
Diacylglycerol; Icosapentaenoic acid; Docosahexaenoic acid; Dietary fat; Ethyl ester; (Mouse) (Fowler, K.H. (1210) 89)

Splicing
cDNA cloning; Angiotensin II; Receptor; (*X. laevis*) (Nishimatsu, S.-i. (1218) 401)

Splicing mutation
Erythropoietic protoporphyria; Ferrochelatase; Exon skipping (Wang, X. (1227) 25)

Spontaneously hypertensive rat
NMR; Wistar-Kyoto rat (Dowd, T.L. (1226) 83)

spoT
ppGpp; Transcriptional readthrough; Translational readthrough (Faxén, M. (1219) 425)

Squalene-hopene cyclase
Hopanoid; Tetrahymanol; Triterpenoid; (*Rh. palustris*) (Kleemann, G. (1210) 317)

Squalene synthase
Microsome; Peroxisome; Farnesyl pyrophosphate synthase; *cis*-Prenyltransferase; Mevalonate pathway (Andersson, M. (1214) 79)

Squalestatin 1; Ubiquinone; Dolichol; Cholesterol; Protein isoprenylation (Thelin, A. (1215) 245)

Squalestatin 1
Squalene synthase; Ubiquinone; Dolichol; Cholesterol; Protein isoprenylation (Thelin, A. (1215) 245)

Squamous lung carcinoma epithelial S1 cell
Cell volume regulation; Chloride secretion; Iodine-125 efflux; P-glycoprotein; MDR; (Human) (Munkonge, F.M. (1224) 342)

***src* kinase**
Signal transduction; Tyrosine phosphorylation; Mass spectroscopy (Amrein, K.E. (1222) 441)

S20, S21
cDNA; Ribosomal protein; (Rice) (Nishi, R. (1216) 113)

S state
Light saturation; Oxygen yield oscillation; (*P. tricornutum*); (*S. leopoliensis*); (*C. vulgaris*) (Mauzerall, D. (1183) 123)

SST2/STE
G-Protein-coupled receptor; Mating pheromone; Novobiocin; Pheromone receptor (Pocklington, M.J. (1224) 401)

SSU
rRNA, 16S; Thermophile; Secondary structure model (Saul, D.J. (1217) 211)

Stability
Redox potential; Alkaline transition; Electron transfer; Cytochrome c_2 (Caffrey, M.S. (1187) 277)

Tetraether lipid; Liposome; Proton permeability; (Archaeon) (Elferink, M.G.L. (1193) 247)

Liposome; Poly(ethylene glycol); Drug delivery system; Exchange; Biodistribution (Parr, M.J. (1195) 21)

Acetylcholinesterase; Amphiphilic form; Dimerization; Salt bridge; (*T. californica*) (Bucht, G. (1209) 265)

Stable isotope probe
Calcineurin; Protein phosphatase-2B (Martin, B.L. (1206) 136)

Stachydrine
Betaine; Choline; Methylamine; Osmoprotection; Osmolyte (Lever, M. (1200) 259)

Standard formation property
Thermodynamics; Equilibrium constant; Apparent equilibrium constant; Coupling; Transformed thermodynamic property (Alberty, R.A. (1207) 1)

Staphylokinase
Plasminogen activation; Site-specific mutagenesis (Schlott, B. (1204) 235)

Starch synthesis
Cauliflower bud; Glucose; Glucose 6-phosphate; ADPglucose; (*Brassica oleracea* L.) (Batz, O. (1200) 148)

Starvation
Branched-chain 2-oxo acid dehydrogenase complex; Endurance training; High-fat diet; Leucine; (Rat muscle) (Fujii, H. (1199) 130)

Skeletal muscle; Liver; Thyroid hormone; Cathepsin; Lysosome (Belkhou, R. (1199) 195)

State 1-state 2 transitions
Photosystem I; Photosystem II; LHCII kinase; Response spectrum; Protein transport; Thylakoid membranes (McCormac, D.J. (1187) 301)

State transition
Photoacoustic spectroscopy; Quantum efficiency; Excitation transfer (Delosme, R. (1185) 56)

Static magnetic field
Diamagnetism; Neuromuscular junction; Magnetic field; Presynaptic membrane (Rosen, A.D. (1193) 62)

Staurosporine
Protein kinase C substrate; Protein kinase inhibitor; Two-dimensional gel electrophoresis; Phorbol ester; Anterior pituitary gland; (Rat) (Simpson, J. (1220) 69)

Cytokine regulation; Endotoxin; Signal transduction; Liposome; Sphingosine; (Rat) (Tschaikowsky, K. (1222) 113)

Stearic acid
Phospholipid molecular species; Phosphatidylcholine; Phosphatidylethanolamine; Polyunsaturated fatty acid; Palmitic acid; Hepatocyte; (Rat) (Woldseth, B. (1213) 39)

1-Stearoyl-2-capryl-*sn*-glycero-3-phospho-*N*-trimethylpropanolamine
Raman spectroscopy; DSC; Mixed interdigitated acyl chain bilayer; 1-Stearoyl-2-capryl-*sn*-glycero-3-phosphocholine; Phosphatidylcholine *trans* headgroup conformation (Batenjany, M.M. (1192) 205)

1-Stearoyl-2-capryl-*sn*-glycero-3-phosphocholine
Raman spectroscopy; DSC; Mixed interdigitated acyl chain bilayer; 1-Stearoyl-2-capryl-*sn*-glycero-3-phospho-*N*-trimethylpropanolamine; Phosphatidylcholine *trans* headgroup conformation (Batenjany, M.M. (1192) 205)

Steatosis
Enteral nutrition; Parenteral nutrition; VLDL; Apoprotein B; Lipoprotein release; (Rat) (Yamashita, H. (1210) 329)

Steel factor
Mast cell growth factor; Kit ligand; Nucleotide sequence; Amino acid homology; cDNA cloning; (Cow) (Zhou, J.-H. (1223) 148)

Stefin, A and B
Size-exclusion chromatography; Urea and alkylurea denaturation; Unfolded state; Molten globule intermediate (Žerovnik, E. (1209) 140)

Stereospecificity
Lipoxygenase; Positional specificity; Arachidonic acid; (Tomato) (Regdel, D. (1210) 297)

Steroid
Small-angle X-ray diffraction; X-ray diffraction, small-angle; DSC; Drug-membrane interaction; Alphaxalone; Δ^{16}-Alphaxalone (Mavromoustakos, T. (1194) 69)

Cytochrome *P*-450; Protein purification; 14α-Hydroxylation; 11β-Hydroxylation; 11β-Hydroxylase; (*Curvularia lunata*) (Suzuki, K. (1203) 215)

Liposome; Macrophage (Aikawa, K. (1213) 127)

Steroid biotransformation
Retinoic acid; Hepatic microsomal enzyme; 17β-Hydroxysteroid oxidoreductase; Enzyme inhibition (Murray, M. (1222) 227)

Steroid hormone
U18666A; Cholesterol esterification; Cholesterol translocation; Lipid transfer; Leydig cell; Fibroblast; (Mouse); (Human) (Härmälä, A.-S. (1211) 317)

Steroid hormone receptor gene
Progesterone receptor gene; Intranuclear receptor gene; Sequence analysis; (Human) (Misrahi, M. (1216) 289)

Steroid hydroxylase
Cytochrome *P*-450scc; Monooxygenase; Cytochrome *P*-450; Oxidoreductase; Side-chain cleavage enzyme of cholesterol (Miyatake, A. (1215) 176)

Steroid sex hormone
Membrane permeability; Erythrocyte; Red blood cell (Koefoed, P. (1195) 55)

Steroid transport
Cholesterol; Estradiol; Membrane; Lipid bilayer (Jacobsohn, M.K. (1195) 131)

Sterol
Phospholipid; Lipid–lipid interaction; Cholesterol oxidase; Monolayer membrane; SUV (Slotte, J.P. (1190) 435)

Amphotericin; Water; Complexation (Langlet, J. (1191) 79)

Plasma membrane purification; Inside-out vesicle; Phospholipid; ATPase, H^+- (Hernández, A. (1195) 103)

Parenteral fat emulsion; Liposome; Triacylglycerol; Phospholipid; NMR; Fat particle (Férézou, J. (1213) 149)

Sterol carrier protein-2
Cholesterol; Fatty acid binding protein; Plasma membrane; Fluorescence; Hypolipidemic drug (Woodford, J.K. (1189) 52)

Sterol synthesis
Energy depletion; Mitochondrion; Nucleotide synthesis; Phospholipid synthesis; Cell growth; (*S. cerevisiae*) (Hapala, I. (1190) 40)

Stimulatory GTP-binding regulatory protein
Ethanol; Gs; S49 murine lymphoma cell; Cycloheximide; Puromycin (Nakamura, J. (1209) 111)

Stoichiometry
Taurine; β-Alanine; Sodium ion dependent uptake; Anion dependence; Proximal tubule; (Human); (Kidney cell) (Jessen, H. (1194) 44)

Glycine transport; Sodium chloride dependence; Sarcosine; GLYT 1; Calmodulin antagonist; (Choriocarcinoma cell) (Liu, W. (1194) 176)

Stomatin
Cation transport; Cell membrane; Erythrocyte; Inborn error; Stomatocytosis (Stewart, G.W. (1225) 15)

Stomatocytosis
Stomatin; Cation transport; Cell membrane; Erythrocyte; Inborn error (Stewart, G.W. (1225) 15)

Stopped-flow circular dichroism
Poly(L-lysine); Alpha helix; Beta structure; Structure transition; Phosphatidic acid vesicle; Circular dichroism (Fukushima, K. (1191) 133)

Storage disorders
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Strand transfer
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Stratum corneum lipid
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Streptavidin
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Streptokinase
5,6-*trans*-Prostaglandin E_2; Plasminogen activation; Urokinase; Fibrinolysis (Urano, T. (1205) 258)

Streptomycetes
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Streptomycin
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Energy coupling; Redox energy (Williams, R.J.P. (1187) 125)

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Heat-shock protein; Alcohol; Fatty acid; (*Drosophila*) (Munks, R.J.L. (1223) 23)

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Structural change
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Structural membrane topology
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Structural model
Alcohol dehydrogenase; Lignification; Molecular modeling; Dehydrogenase; Sequence homology (McKie, J.H. (1202) 61)

Structural organization
Photosystem II; Tyrosine D; Tyrosine Z; EPR, pulsed (Astashkin, A.V. (1187) 89)

Structural parameter
Phase transition temperature; Mixed-chain phosphatidylcholine; Mixed interdigitated packing motif (Li, S. (1194) 271)

Structural perturbation
β-Lactoglobulin; Site-directed mutagenesis; Retinol binding; Conformational stability; Conserved residue (Katakura, Y. (1207) 58)

Structure
Infrared spectroscopy; ATPase, Ca^{2+}-; Sarcoplasmic reticulum; Structural change (Barth, A. (1194) 75)

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Glycolipid; Halophile; Halobacterium; Isopranoid ether lipid; (*Hb. trapanicum*); (*Archaea*) (Trincone, A. (1210) 35)

Phenolic glycolipid; Glycolipid; (*M. tuberculosis*) (Watanabe, M. (1210) 174)

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Parasite; Glycosphingolipid; Ganglioside; (*Echinococcus multilocularis*); (Cestode) (Persat, F. (1225) 297)

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Structure elucidation
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Structure–function
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Structure–function relationship
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Proteolysis; Neurotoxin; Solvent accessibility; (Sea anemone) (Monks, S.A. (1207) 93)

DNA damage; Pyrimidine base (Miaskiewicz, K. (1218) 283)

Structure transition
Poly(L-lysine); Alpha helix; Beta structure; Phosphatidic acid vesicle; Stopped-flow circular dichroism; Circular dichroism (Fukushima, K. (1191) 133)

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Subcellular distribution
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Acyl-CoA hydrolase; Acyl-CoA:1-acyl-lysophospholipid acyltransferase; Platelet; (Human) (Bakken, A.M. (1214) 180)

Subcellular fractionation
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Subcellular localization
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Subcore particle, 18 S
Energy transfer; Phycobilisome; Cyanobacterium; Fluorescence relaxation (Gindt, Y.M. (1186) 153)

Subdomain 4
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Trehalase; Diapause hormone; cDNA; Transcription; Ovary; (Silkworm); (*B. mori*) (Su, Z.-H. (1218) 366)

Subgel transition
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α-Chymotrypsin; PEG-α-chymotrypsin; Acyl transfer (Čeřovský, V. (1204) 91)

Substrate analogue
Trypanothione reductase; Kinetic analysis; Glutamyl binding site; Enzyme modification; (*C. fasciculata*); (*T. congolense*) (El-Waer, A.F. (1203) 93)

Substrate binding force
Active transport; Co-transport mechanisms; Uncoupled transport; Slippage (Krupka, R.M. (1183) 105)

Membrane transport; Vectorial coupling; ATPase; Uncoupled transport; Molecular motor (Krupka, R.M. (1183) 114)

Substrate depletion
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Substrate specificity
Cytochrome *P*-450; Plant enzyme; Monoterpenoid; Genes; Hybridization; (*N. racemosa*); (*P. americana*) (Hallahan, D.L. (1201) 94)

Alpha amylase; Amylase; Enzyme modification; (Pancreas) (Yamashita, H. (1202) 129)

Metalloproteinase; Collagenase/gelatinase, 92 kDa type IV; Primary structure; Expression; Activation; (*E. coli*) (Pourmotabbed, T. (1204) 97)

Maltobionate α-D-glucohydrolase; Alkalophilicity; (*Bacillus* sp. N-1053) (Shirokane, Y. (1207) 143)

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Subtilisin inhibitor
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Subtilisin inhibitor-like protein
Proteinase inhibitor; Inhibitory property; Primary structure; (*S. cacaoi*) (Kojima, S. (1207) 120)

Subtractive cDNA hybridization
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Subtractive hybridization
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ATPase; Chloroplast coupling factor CF_1; ATP-ADP γ-phosphate exchange (Malyan, A.N. (1184) 202)

ATPase; F_1; Over-expression; Photophosphorylation; Reconstitution; (*Synechocystis* sp. PCC 6803) (Steinemann, D. (1187) 354)

Casein kinase II; Recombinant; Salt; (*Drosophila*) (Tiganis, T. (1203) 282)

Glutathione *S*-transferase; Amino acid sequence; 4-Hydroxy-2-nonenal; (Human) (Singhal, S.S. (1204) 279)

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Ferredoxin-thioredoxin reductase; Subunit B; cDNA sequence; (*S. oleracea*) (Falkenstein, E. (1185) 252)

Subunit B
Ferredoxin-thioredoxin reductase; Subunit A; cDNA sequence; (*S. oleracea*) (Falkenstein, E. (1185) 252)

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ATP synthase, F_0F_1-; Mutagenesis; Cyanobacterium; (*Synechocystis* sp.) (Lill, H. (1184) 284)

Subunit, γ-
uncG; ATPase, F_1F_o-; Gene expression; Deletion analysis; (*E. coli*) (Angov, E. (1183) 499)

Subunit interaction
Chloroplast; ATPase, F_0F_1-; Energy transduction (Fiedler, H.R. (1188) 29)

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Subunit 9 (P1)
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Subunit structure
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Subunit VIa
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δ-Subunit
ATP-synthase; ε-Subunit; Inhibitor protein; Temperature dependence; Co-reconstitution; (*M. luteus*) (Grüber, G. (1186) 43)

ε-Subunit
ATPase, H^+-; Product activation; (*E. coli*) (Wu, J.-H. (1185) 50)

ATP-synthase; δ-Subunit; Inhibitor protein; Temperature dependence; Co-reconstitution; (*M. luteus*) (Grüber, G. (1186) 43)

Succinate dehydrogenase
Mitochondrion; Complex II; Fumarate reductase; EPR, pulsed; ESEEM; (Plant); (*S. platensis*) (Shergill, J.K. (1185) 43)

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Succinate-ubiquinone oxidoreductase
Anchor polypeptide; cDNA; Nucleotide sequence; (Beef heart) (Cochran, B. (1188) 162)

Suckling
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Sucralfate
Fibroblast growth factor; FGF; Sucrose octasulfate; Protein stability; (aFGF); (FGF-1) (Volkin, D.B. (1203) 18)

Sucrase gene
DNA sequence; (*Z. mobilis*) (Song, K.-B. (1219) 163)

Sucrose
Bioenergetics; Biomembrane; Diffusion; Glycerol; Membrane dynamics; Hydration (Chazotte, B. (1194) 315)

Thylakoid membrane; Lipid; Inverted micelle; Electron microscopy (YashRoy, R.C. (1212) 129)

Sucrose gradient centrifugation
Fucoxanthin-Chl *a* / *c* complex; Light-harvesting protein; Non-denaturing electrophoresis; (*Olisthodiscus luteus*); (*Heterosigma carterae*) (Durnford, D.G. (1184) 118)

Sucrose monostearate
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Sucrose octasulfate
Fibroblast growth factor; FGF; Sucralfate; Protein stability; (aFGF); (FGF-1) (Volkin, D.B. (1203) 18)

Sucrose transport
Affinity chromatography; Plasmalemma; Plasma membrane; Reconstitution; (Plant); (Sugar beet) (Li, Z.-S. (1219) 389)

Sudden infant death
Fatty acid oxidation; Mitochondrial enzyme; Non-cleavable signal; Sequence homology; Reye syndrome; (Human) (Abe, H. (1216) 304)

Sugar
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Sugar analysis
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Sugar transport
Catabolite inactivation; cyclicAMP-dependent protein kinase; Protein kinase; (*S. cerevisiae*) (Riballo, E. (1192) 143)

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Suicide substrate
Enzyme kinetics; Enzyme inactivation; Tyrosinase; α-Methyldopa; Catechol; L-Dopa (Moreno, M.G. (1205) 282)

Sulbutiamine
Thiamine diphosphate; Thiamine triphosphate; Metabolism; Rat brain; Subcellular fractionation (Bettendorff, L. (1222) 1)

Thiamine; Thiamine triphosphate; Thiamine diphosphate; Neuroblastoma cell (Bettendorff, L. (1222) 7)

Sulfatase
Cholesterol sulfate; Periderm; Epidermis; Epidermal lipid; Differentiation marker (Kagehara, M. (1215) 183)

Sulfated polysaccharide
L-Galactan; Glycosaminoglycan; Dermatan sulfate; (Ascidia) (Pavão, M.S.G. (1199) 229)

Sulfate-reducing bacterium
Cytochrome c_3; Polyhemic cytochrome *c*; Protein sequence; Amino acid sequence comparison (Bruschi, M. (1205) 123)

Sulfatide
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Sulfolipid; Glycolipid; Seminolipid; Myelin; Spermatozoon (Vos, J.P. (1211) 125)

HIV; Envelope glycoprotein; Ganglioside; Monoclonal antibody; Macrophage (Seddiki, N. (1225) 289)

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Phospholipase C; Phosphatidylinositol 4,5-bisphosphate; Hydrogen peroxide; Hypochlorous acid; Rat heart sarcolemma (Meij, J.T.A. (1199) 6)

Enzyme characterization; Thermostability; (*H. vallismortis*) (Rangaswamy, V. (1201) 106)

Glyoxalase I; Thiol reagent; (*S. cerevisiae*) (Caccuri, A.M. (1202) 157)

Thiol-specific reagent; Octopine dehydrogenase; Cyanolysis; Chemical modification; Catalytic site (Sheikh, S. (1202) 251)

Acyl-CoA synthetase; Bile acid:CoA ligase; Bile acid conjugation; Cholate; Acyl-CoA (Vessey, D.A. (1203) 126)

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PACAP receptor; Pig brain; Solubilization; Deglycosylation; Desialylation (Cao, Y.-J. (1222) 432)

Sulfide
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Sulfolipid
Glycolipid; Sulfatide; Seminolipid; Myelin; Spermatozoon (Vos, J.P. (1211) 125)

Sulfonate
Thermogenin; GDP binding; Purine nucleotide; Mitochondrion; Brown fat; (Hamster) (Nedergaard, J. (1185) 311)

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Sulfonylurea receptor; Glimepiride; Glibenclamide; Insulin secretion; Beta cell (Müller, G. (1191) 267)

Sulfonylurea receptor
Sulfonylurea binding kinetics; Glimepiride; Glibenclamide; Insulin secretion; Beta cell (Müller, G. (1191) 267)

Insulin secretion; Photoaffinity labeling; Glimepiride; Glibenclamide; ATP-regulated K^+-channel; Potassium ion channel; Beta cell (Kramer, W. (1191) 278)

Sulfoxide
Chloroperoxidase; Sulfide; Halide; Chloroperoxidase compound I (Pasta, P. (1209) 203)

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Bis(2-chloroethyl)sulfide; Lymphocyte; Nucleosome (Millard, C.B. (1224) 389)

Supercoiled DNA
DNA repair, subcellular; Ultraviolet damage; Oxidative damage (Collins, A.R. (1219) 724)

Supercoiling
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Supercomplex
Electron transfer; Reaction center; Cytochrome c_2; bc_1 complex; (*R. sphaeroides*) (Verméglio, A. (1183) 352)

Electron transfer; Reaction center; Cytochrome c_2; bc_1 complex; (*Rb. sphaeroides* forma sp. *denitrificans*) (Sabaty, M. (1187) 313)

Superfamily
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Superoxide
Oxidative damage; Methemoglobin; Metal; Peroxide (Grinberg, L.N. (1201) 284)

Chemiluminescence; Video microscopy; Neutrophil; (Rabbit) (Suzaki, E. (1201) 328)

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Surface antigen; Oxidative burst; Monoclonal antibody; Neutrophil (Michetti, M. (1194) 296)

Soybean lipoxygenase; Oxidative stress; NAD(P)H (Roy, P. (1214) 171)

NADPH oxidase; Neutrophil; Cytosolic component; Nucleotide binding (Mizunari, H. (1220) 21)

Spice principle; $n-3$ Fatty acid; Hydrogen peroxide; Nitrite radical; Macrophage (Joe, B. (1224) 255)

Superoxide dismutase
Catalase; DT-diaphorase; Norepinephrine; Quinone; Oxygen radical (Linderson, Y. (1200) 197)

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Superoxide dismutation
Copper(I) thionein; Thiyl radical; EPR; (Yeast) (Deters, D. (1208) 344)

Superoxide generation
NADPH oxidase activity; Cell-free system; Cytosolic factor p47; (Neutrophil); (Rat) (Levy, R. (1220) 261)

Superoxide production
Protein kinase C inhibitor; NADPH oxidase activity; p47 phosphorylation; Opsonized zymosan; (Neutrophil); (Human) (Levy, R. (1220) 253)

Supported membrane
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Suppression mutation
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Surface activity
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Surface antigen
Oxidative burst; Superoxide anion; Monoclonal antibody; Neutrophil (Michetti, M. (1194) 296)

Surface film
Phospholipid; Lipid; Cholesterol; SP-A; Calcium; Adsorption; Surface pressure; Surface tension; Film stability (Yu, S.-H. (1211) 350)

Surface hydrolysis
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Surface molecule
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Surface plasmon resonance
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Surface pressure
Phospholipid; Lipid; Cholesterol; SP-A; Calcium; Adsorption; Surface film; Surface tension; Film stability (Yu, S.-H. (1211) 350)

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Phospholipid; Lipid; Cholesterol; SP-A; Calcium; Adsorption; Surface film; Surface pressure; Film stability (Yu, S.-H. (1211) 350)

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Papaverine; Vasodilator drug; Micelle; Interaction; NMR (Yushmanov, V.E. (1189) 74)

Membrane fusion; Poly(ethylene glycol); Phospholipase C; Resonance energy transfer; (B16 melanoma cell) (Partearroyo, M.A. (1189) 175)

Liposome; Archaebacterium; NMR, ^{1}H-; FABMS; Membrane morphology (Yamauchi, K. (1193) 41)

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α-Crystallin; Chaperone; Aggregation (Carver, J.A. (1204) 195)

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Surfactant lipid
Fatty acid synthetase; Human fetal lung; cyclic AMP; Glucocorticoid; Fatty acid synthesis (Gonzales, L.W. (1215) 49)

Surfactant protein
Alveolar macrophage; Peritoneal macrophage; Phospholipid uptake; (Rat) (Sane, A.C. (1213) 107)

Surfactant protein A
Phospholipase A_2; Bovine pancreas; Lectin-binding; (*C. atrox*); (*N. naja*); (*T. flavoviridis*) (Fisher, A.B. (1211) 256)

Surfactin synthetase multi-enzyme complex
SDS-PAGE; Western blotting; (*B. subtilis*) (Galli, G. (1205) 19)

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SVD analysis
Hemoglobin; Ligand binding; Transient spectroscopy; (*P. equorum*) (Antonini, G. (1205) 252)

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Chorio-decidual cell; 293 cell; JEG-3 cell; *tk* promoter; Transient expression analysis (Smith, D.L. (1219) 465)

Sweet protein
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Symport mechanism
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Synaptosome
Taurine transport; Hyperosmolality; Fluorescence anisotropy; Lipid fluidity (Medow, M.S. (1193) 323)

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***Synechococcus* sp. PCC 7942**
Cyanobacterium; Nitrate transport; Nitrite transport (Luque, I. (1184) 296)

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Lipoprotein lipase gene; 5′ Flanking sequence; *cis*-acting regulatory element; Promoter activity; (Avian) (Lu, S.-C. (1216) 375)

Synthesis
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Synthetic gene
Recombinant acylphosphatase; NMR; Gene expression; (Human) (Modesti, A. (1216) 369)

Synthetic melanin
Protomolecule; Scanning tunneling microscopy; X-ray diffraction; Molecular modeling (Zajac, G.W. (1199) 271)

Synthetic oligoribonucleotide
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Galactophilic lectin; Lectin gene; Nucleotide sequence; Recombinant lectin; (*P. aeruginosa*) (Avichezer, D. (1218) 11)

Dopamine D_1 receptor; G_s protein; Binding site; Receptor binding (König, B. (1223) 261)

Synthetic phosphopeptide
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System A
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Systemic carnitine deficiency
Reabsorption of carnitine; Na-dependent transport system; (Animal model) (Horiuchi, M. (1226) 25)

Systemic circulation
Brain ischemia; Superoxide dismutase; Nitric oxide; N^G-Monomethyl-L-arginine; Nitrite; Nitrate (Sakashita, N. (1227) 67)

System L
Leucine transport; Calmodulin antagonist; pH sensitivity; Choriocarcinoma cell; Placenta (Brandsch, M. (1192) 177)

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Talc
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Targeted liposome
Liposome; Streptavidin; Biotin; Ganglioside; Poly(ethylene glycol) (Corley, P. (1195) 149)

TATA-binding protein
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Taurine
Taurine transport; Sodium dependence; Central nervous system (Chung, S.-J. (1193) 10)

β-Alanine; Sodium ion dependent uptake; Anion dependence; Stoichiometry; Proximal tubule; (Human); (Kidney cell) (Jessen, H. (1194) 44)

Cell volume; Cerebral cortex; Anion transport; Calmodulin; (Rat) (Law, R.O. (1221) 21)

Cell volume; Cerebral cortex; Anion transport; (Rat) (Law, R.O. (1224) 377)

Taurine transport
Taurine; Sodium dependence; Central nervous system (Chung, S.-J. (1193) 10)

Synaptosome; Hyperosmolality; Fluorescence anisotropy; Lipid fluidity (Medow, M.S. (1193) 323)

Taurine transporter
TAUT; Volume regulation; Preimplantation embryo; Insulin; Preimplantation development (Van Winkle, L.J. (1191) 244)

TAUT
Taurine transporter; Volume regulation; Preimplantation embryo; Insulin; Preimplantation development (Van Winkle, L.J. (1191) 244)

Tay-Sachs disease
G_{M2} gangliosidosis; G_{M2} ganglioside; G_{M2} activator; Hexosaminidase (Novak, A. (1199) 215)

Tb-DPA release
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TCP1-ring complex protein 5
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TGF-β superfamily
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Thiamine; Sulbutiamine; Thiamine triphosphate; Neuroblastoma cell (Bettendorff, L. (1222) 7)

Thiamine triphosphate
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Thiamine; Sulbutiamine; Thiamine diphosphate; Neuroblastoma cell (Bettendorff, L. (1222) 7)

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Thrombocyte
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T lymphocyte
Protein-tyrosine phosphatase; mRNA stabilization; Mitogenic stimulation; mRNA (Rajendrakumar, G.V. (1216) 205)

Leucinostatin A; Ionophore; Antibiotic; Immunosuppression; Cyclosporin A (Csermely, P. (1221) 125)

T lymphoma
Restriction mapping; VL30 retrotransposon; (Mouse) (French, N.S. (1219) 484)

TNBS
Ascorbate; Lipid vesicle; External surface; CAT-16; NBD-PE; EPR (Gruber, H.J. (1189) 212)

Tocopherol
High-density Lipoprotein; Carotene; Chromatography (Brown, A.J. (1210) 373)

Tocopherol hemisuccinate
pH-sensitive liposome; Cholesteryl hemisuccinate; Fatty acid; Phosphatidylethanolamine; 1-Palmitoyl-2-oleoyl-phosphatidylethanolamine; Liposome (Jizomoto, H. (1213) 343)

α-Tocopherol
α-Tocopheroxyl radical; Antioxidant; Solvent effect; ESR; Lipid peroxidation; Liposomal membrane; SDS micelle (Iwatsuki, M. (1200) 19)

Copper; Iron; Lipid peroxidation (Yoshida, Y. (1200) 85)

Peroxyl radical; Lipid peroxidation; Liposome; Phosphatidylcholine (Yamauchi, R. (1212) 43)

(+)-α-Tocopherol
Protein kinase C inhibition; Vascular smooth muscle cell; Cell proliferation inhibition (Boscoboinik, D.O. (1224) 418)

α-Tocopheroxyl radical
α-Tocopherol; Antioxidant; Solvent effect; ESR; Lipid peroxidation; Liposomal membrane; SDS micelle (Iwatsuki, M. (1200) 19)

Tocopheryl succinate
Acetylcholinesterase; Butyrylcholinesterase; Cholesteryl succinate; Tetrahydroaminoacridine (Chelliah, J. (1206) 17)

TOL
mRNA structure; Promoter; (*Pseudomonas*) (Marqués, S. (1216) 227)

Toluene metabolism
Cytochrome *P*-450 2E1; Cytochrome *P*-450 2B1/2B2; Cytochrome *P*-450 2C11; Ethylbenzene induction; Temporal changes in *P*-450 expression (Sequeira, D.J. (1207) 179)

Tonoplast
Potassium ion channel, SV type; Calcium ion dependence; Voltage dependence; Multichannel analysis; Perfusion pipette; Vacuolar membrane; (*C. rubrum*) (Reifarth, F.W. (1192) 79)

Topology
Superoxide dismutase; Manganese enzyme; Transcription activation; Iron-containing repressor protein; (*E. coli*) (Schrum, L.W. (1216) 186)

Torpedinidae
Cholinergic receptor; Local anesthetic; Lipid annulus; Cyanine dye (Arias, H.R. (1190) 393)

Toxicity
Calcium; Osteocalcin; Lead; NMR (Dowd, T.L. (1226) 131)

Toxin–cell interaction
cyclic AMP accumulation; Cholera toxin hybrid; Multivalent binding; (Penetration of A subunit) (De Wolf, M.J.S. (1223) 296)

TPA
DNA topoisomerase I; Phosphorylation; 12-*O*-Tetradecanoylphorbol 13-acetate; Epidermal growth factor; Insulin; Camptothecin; (Fibroblast); (Hepatoma cell); (Mouse) (Samuels, D.S. (1223) 77)

tPA inhibitor
Proteinase inhibitor; Trypsin inhibitor; Gene synthesis; (*Erythrina*) (Teixeira, A.V. (1217) 16)

Transacylase
Arachidonic acid; Docosahexaenoic acid; Docosapentaenoic acid; Icosanoid; Icosapentaenoic acid; Fish oil; Glyceryl ether; Nutrition; ($n-3$) Fatty acid; Plasmalogen; Platelet-activating factor (Blank, M.L. (1214) 295)

Platelet-activating factor; Arachidonate movement; Neutrophil (Winkler, J.D. (1215) 133)

Transcobalamin II
Cobalamin; Polymorphism; Amino acid substitution; Arginine; (Caco-2 cell); (Fibroblast) (Li, N. (1219) 515)

Transcription
RNA; Actin; Promoter; Antisense RNA; Transformation vector (Knecht, D. (1216) 105)

O^6-Methylguanine-DNA methyltransferase; Methylation; In vitro methylation; Chloramphenicol acetyltransferase; (Human) (Harris, L.C. (1217) 141)

DNA sequence; Chloroplast; Photosystem II; *psb*D; *psb*C; (*E. gracilis*) (Orsat, B. (1218) 75)

Run-off transcript; Bacteriophage S13; Promoter (Ringuette, M.J. (1218) 331)

Trehalase; Diapause hormone; Subesophageal ganglion; cDNA; Ovary; (Silkworm); (*B. mori*) (Su, Z.-H. (1218) 366)

Ribosomal protein S4; Amino acid sequence; Tissue specificity; (Potato) (Braun, H.-P. (1218) 435)

Homeobox; Homeodomain; Development; Wounding; Polymerase chain reaction; (*Brassica napus*) (Boivin, R. (1219) 201)

Adrenergic receptor; Hepatocyte; RNA processing (Deng, C.-l. (1219) 669)

Blood vessel; Cytokine; Nitric oxide synthase; Protein kinase C; (Smooth muscle cell); (Rat) (Geng, Y.-j. (1223) 125)

Transcription activation
Superoxide dismutase; Manganese enzyme; Topology; Iron-containing repressor protein; (*E. coli*) (Schrum, L.W. (1216) 186)

β-Globin; Deletion analysis; (Erythroleukemia cell); (Mouse) (Pruzina, S. (1219) 351)

Mineralocorticoid receptor; Glucocorticoid receptor; Progesterone receptor; Mouse mammary tumor virus (Couette, B. (1219) 607)

Transcriptional readthrough
ppGpp; *spoT*; Translational readthrough (Faxén, M. (1219) 425)

Transcriptional regulation
Fatty acid transport; Fatty acid oxidation; Gene regulation; Fatty acid metabolism; (*E. coli*) (Black, P.N. (1210) 123)

Sodium ion–proton exchanger gene; Regulatory element; Nuclear activity; (Human) (Kolyada, A.Y. (1217) 54)

Nitric oxide synthase; Gene structure; Promoter deletional analysis; (Bovine aortic endothelial cell) (Venema, R.C. (1218) 413)

Jun and Fos related gene product; Glutathione transferase P gene; GPE I; DNA binding activity; (Rat) (Oridate, N. (1219) 499)

Transcriptional regulatory element
CAT assay; DNA binding protein; Double strand; Single strand; N-*myc* (Imamura, Y. (1216) 273)

Transcription control
Regulatory element; DNA topoisomerase gene; (Mouse); (Human) (Baumgärtner, B. (1218) 123)

Apolipoprotein E; Ap1-like protein; Phorbol ester; (Human macrophage) (Basheeruddin, K. (1218) 235)

Transcription factor
Initiator; Promoter; In vitro transcription; DNAase I footprinting (Wang, J.C. (1218) 308)

cDNA sequence; Helix-loop-helix (Deed, R.W. (1219) 160)

Nucleotide sequence; Ankyrin repeat; Oxysterol-binding protein; (*S. cerevisiae*) (Schmalix, W.A. (1219) 205)

Promoter; Tumor necrosis factor; (Human) (Krämer, B. (1219) 413)

Transcription initiation complex
General transcription factor; RAP74; RNA polymerase; In vitro transcription (Chibazakura, T. (1219) 592)

Transcription regulation
Carbon catabolite repression; Ubiquinol cytochrome *c* oxidoreductase; FPS1; QCR8; (*S. cerevisiae*); (*K. lactis*) (Mulder, W. (1219) 713)

Carbon catabolite regulation; Ubiquinol cytochrome *c* oxidoreductase; QCR7; APA2; (*K. lactis*) (Mulder, W. (1219) 719)

Transcription/translation
Cell-free expression system; Magnetic field; RNA polymerase (Goodman, E.M. (1202) 107)

Transduction
Receptor binding; Testosterone secretion; Luteinizing hormone; Choriogonadotropin; Leydig cell (Apparailly, F. (1224) 559)

Transendothelial transport
P-glycoprotein; Blood-brain barrier; Cyclosporin A; Brain capillary endothelial cell (Shirai, A. (1222) 400)

Transfection
Apolipoprotein B; Hepatocyte; Lipoprotein; Recombinant DNA; DNA; Cell culture (Yao, Z. (1212) 152)

AraC protein; Gene expression; Protein–DNA interaction; Regulatory circuit (Raman, V. (1219) 441)

Blasticidin S deaminase; Drug resistance gene (Kimura, M. (1219) 653)

Transferrin
Binding protein; Mucosal; Development; Ferritin; (Guinea pig) (Kozma, M.M. (1201) 229)

Glycan; Endoglycosidase; Amino acid sequence; Electrospray mass spectrometry; (Porcine) (Sharma, N.D. (1206) 286)

IGF_1; TGF-β; Differentiation; Proliferation; Arachidonic acid; Phospholipid release (Wikiel, H. (1211) 161)

Plasma membrane electron transport; Bombesin; Growth control; Sodium ion/proton antiport (Sun, I.L. (1221) 206)

Lactoferrin; Adenocarcinoma cell line; Receptor; (HT29-D4) (Roiron-Lagroux, D. (1224) 441)

Transformation
Annexin; Cell growth; Cell-cell contact; Secretion (Theobald, J. (1223) 383)

Transformation vector
RNA; Actin; Transcription; Promoter; Antisense RNA (Knecht, D. (1216) 105)

Transformed thermodynamic property
Thermodynamics; Equilibrium constant; Apparent equilibrium constant; Standard formation property; Coupling (Alberty, R.A. (1207) 1)

Transforming growth factor-β
Cartilage; ATP, extracellular; Interleukin 1; P_2-purinoceptor; Tumour necrosis factor α (Leong, W.S. (1201) 298)

Glucose transporter; *N*-Glycosylation; Lectin binding; Mouse 3T3 fibroblast (Masumi, A. (1221) 330)

Transforming growth factor β
Microvascular endothelium; Tubular morphogenesis; Chondrocyte; (Human) (Tada, K. (1201) 135)

Interleukin-1β; Cell proliferation; Cartilage; (Chondrocyte) (Frazer, A. (1226) 193)

Transforming growth factor-β, TGF-β
TGF-β superfamily; Activin receptor; TGF-β receptor; Signaling; Serine/threonine kinase receptor (Attisano, L. (1222) 71)

Transforming growth factor β1
AP-1; cyclic AMP response element-binding protein; Phorbol ester; Methylated DNA binding protein (Asiedu, C.K. (1219) 55)

Transglutaminase
Site-directed mutagenesis; GTPase; GTPase activity (Lee, K.N. (1202) 1)

Transglycosylation
Testicular hyaluronidase; Enzyme kinetics; Computer modeling; Carbohydrate (Cramer, J.A. (1200) 315)

Transhydroxylase
Anaerobic degradation; Molybdoenzyme; Phloroglucinol pathway; Trihydroxybenzene; (*P. acidigallici*) (Reichenbecher, W. (1204) 217)

Transient expression analysis
Chorio-decidual cell; 293 cell; JEG-3 cell; SV40 enhancer; *tk* promoter (Smith, D.L. (1219) 465)

Transient kinetics
Cytochrome *bo*; Mutant; Carbon monoxide; Flash photolysis; (*E. coli*) (Brown, S. (1183) 521)

Transient spectroscopy
Hemoglobin; Ligand binding; SVD analysis; (*P. equorum*) (Antonini, G. (1205) 252)

Transient-state kinetics
Enzyme-catalyzed reaction; Progress curve; Enzyme; Coupled reaction (Duggleby, R.G. (1205) 268)

Transit peptide
Plastocyanin; Copper protein; *petE*; Prochlorophyte; Photosynthesis; (*Prochlorothrix*) (Arudchandran, A. (1188) 447)

Transketolase
Nucleotide sequence; Thiamin pyrophosphate; Pentose phosphate cycle; (*E. coli* K-12) (Sprenger, G.A. (1216) 307)

Translation
Saporin; Ribosome-inactivating protein; Translation inhibition; Tissue distribution; (*S. officinalis*) (Ferreras, J.M. (1216) 31)

RpsM(S13) mutation; Sequence; Antisuppression (Faxén, M. (1218) 27)

Translational readthrough
ppGpp; *spoT*; Transcriptional readthrough (Faxén, M. (1219) 425)

Translation fidelity
Polyamine; Streptomycin; (*E. coli*) (Nastri, H.G. (1216) 455)

Translation inhibition
Saporin; Ribosome-inactivating protein; Tissue distribution; Translation; (*S. officinalis*) (Ferreras, J.M. (1216) 31)

Translocation
Phosphatidylcholine; Cytidylyltransferase; Phosphatidate phosphohydrolase; Diacylglycerol kinase; Phospholipase (Tronchère, H. (1212) 137)

Hydrophobic moment; Parathyroid hormone (Ahn, K. (1224) 459)

Translocon-associated protein
Gene cloning; Gene sequence; (Human) (Bodescot, M. (1217) 101)

Transmembrane
Bacteriorhodopsin; Phospholipid bilayer; Reconstitution; Ion transport; Membrane protein (Muneyuki, E. (1183) 171)

Transmembrane measurement
Bioenergetic membrane; Energy transduction; Membrane nomenclature; (Nomenclature proposal) (Silverstein, T.P. (1183) 1)

Transmembrane potential
Lipid bilayer; Spin label; EPR (Jo, E. (1195) 245)

DiS-C_3(3); 3,3'-Dipropylthiacarbocyanine; Spectral analysis; Flow cytometry; Confocal microscopy (Plášek, J. (1196) 181)

Dielectrophoresis; Electrorotation; Ultramicroelectrodes; Semiconductor technology; Animal/plant cells (Fuhr, G. (1201) 353)

Transplasma membrane redox
Cellular activation; Diaphorase; Plasma membrane; Neuroblastoma cell line (Zurbriggen, R. (1183) 513)

Transport
Sodium ion-proton antiporter; pH regulation; Halotolerance; Membrane protein (Padan, E. (1185) 129)

Gramicidin; NMR, ^{129}Xe-; Ultraviolet photolysis; Blocking (McKim, S. (1193) 186)

Choline; Placental; Vesicle (Grassl, S.M. (1194) 203)

Polyamine; COS cell; Methylglyoxal bis(guanylhydrazone); Difluoromethylornihine (Hyvönen, T. (1221) 279)

Benzo[a]pyrene; Intestine (human); Carcinogen; P-Glycoprotein (Penny, J.I. (1226) 232)

Transport inhibition
Reversal specificity; Multidrug resistance; Leukemic lymphoblast; Efflux pump (Wigler, P.W. (1189) 1)

Transport kinetics
Uncoupled transport; Cotransport; Mutation; Lactose permease; Calcium pump (Krupka, R.M. (1193) 165)

ATPase; Active transport; Coupling mechanism; Uncoupled transport; Binding force (Krupka, R.M. (1193) 179)

Transport mechanism
Mitochondrion; Reconstitution; Carnitine carrier; (Rat liver) (Indiveri, C. (1189) 65)

Transport model
Glucose transport; Kinetics; GLUT1; GLUT4; (Rat adipocyte) (Wheeler, T.J. (1190) 345)

Transport protein
Secondary solute transport; Solute translocation; Carrier mechanism; Bacterium (Poolman, B. (1183) 5)

Anion uptake; Membrane; Vesicle transport; (Rat kidney) (Orlov, Yu.N. (1192) 117)

Transport system
Solute transport; Membrane transport; Carrier protein (Krämer, R. (1185) 1)

Transposon mutagenesis
Protonophore resistance; Bacterial respiration; CCCP; Membrane lipid; (*B. subtilis*) (Quirk, P.G. (1186) 27)

Transthyretin
Familial amyloidotic polyneuropathy; Apolipoprotein AI; Apolipoprotein AII; High density lipoprotein (Tanaka, Y. (1225) 311)

Treatment
Hypercholesterolemia; Familial hypercholesterolemia; LDL; Glucosylated LDL; Hypocholesterolemic drug (Liu, K. (1212) 253)

T_3 receptor
Nitrofen; Development; Hypoplasia; Triodothyronine; (Human lung) (Brandsma, A.E. (1201) 266)

Trehalase
Vacuole; Cytosol; Enzyme activity; Growth cycle; (Yeast); (*S. cerevisiae*) (San Miguel, P.F. (1200) 155)

Diapause hormone; Subesophageal ganglion; cDNA; Transcription; Ovary; (Silkworm); (*B. mori*) (Su, Z.-H. (1218) 366)

Trehalose
Galactolipid; Non-electrolyte permeability; Osmotic membrane damage; Thylakoid; Cryoprotection; (Spinach) (Bakaltcheva, I. (1189) 38)

Ethanol tolerance; Liposome; Plasma membrane; Phase transition; (*S. cerevisiae*) (Mansure, J.J.C. (1191) 309)

Phase transition; Plasma membrane; Dehydration; (*S. cerevisiae*) (Leslie, S.B. (1192) 7)

Saccharomyces cerevisiae; Heat shock; Phosphoglucomutase; UDPG-pyrophosphorylase; Hexokinase (Ribeiro, M.J.S. (1200) 139)

Trehalose dimycolate
Liposome fusion; Phosphatidylserine; DSC; FTIR; Bilayer hydration (Crowe, L.M. (1194) 53)

TRH receptor
Gene; Chromosomal mapping; Expression; Binding property; (Human) (Hinuma, S. (1219) 251)

TRH-related peptide
Pyroglutamylglutamylprolineamide; Fertilization-promoting peptide; Human prostate; Benign prostatic hyperplasia (Cockle, S.M. (1227) 60)

Triacylglucolipid
Membrane; Air/water interface; (*A. laidlawii*) (Demel, R. (1190) 416)

Triacylglycerol
Lipase; Carboxylesterase; (*B. acidocaldarius*) (Hemilä, H. (1210) 249)

Chylomicron; Plasma; (Rat) (Mortimer, B.-C. (1211) 171)

Egg lecithin; Cholesterol (Redgrave, T.G. (1211) 229)

Micellar fatty acid; Icosapentaenoic acid; Phospholipid; Intestine; Fatty acid; (CaCo-2 cell) (Ranheim, T. (1212) 295)

Parenteral fat emulsion; Liposome; Phospholipid; Sterol; NMR; Fat particle (Férézou, J. (1213) 149)

Phase behavior; Cholesteryl ester inclusion (Veloski, C.A. (1213) 183)

Phosphatidate phosphohydrolase; HMG-CoA reductase; Lovastatin; Pravastatin; VLDL (Humble, E. (1214) 32)

Lipoprotein lipase; Gestation; (Rat) (López-Luna, P. (1215) 275)

Triacylglycerol lipase
Protein purification; (*P. cepacia*) (Bornscheuer, U. (1201) 55)

Hepatic triacylglycerol lipase; Adrenal; Ovary; Testis; Cushing's disease; (Human); (Rat) (Verhoeven, A.J.M. (1211) 121)

Triacylglycerol-rich lipoprotein
VLDL; Apolipoprotein B; Liver; Hepatocyte; Intestine; Insulin; Diabetes; Fatty acid (Sparks, J.D. (1215) 9)

Triacylglycerol synthesis
Nagase analbuminemic rat; Hypertriglyceridemia; Hypercholesterolemia; VLDL; Plasma lipoprotein composition; Albumin; Dextran (Catanozzi, S. (1212) 103)

Triazolodiazepine (WEB 2086)
PAF; Calcium mobilization; Phosphoinositide metabolism; Cerebral microvascular endothelial cell; (Calf) (Lin, A.-Y. (1224) 323)

Tri-Calciphor
Ischemia; Mitochondrion; Calcium ionophore; Calcium; Prostaglandin B_1 (Uribe, S. (1225) 144)

Trichloroethanol
Myosin-ATP; Tryptophan; Photochemical modification (Papp, S.J. (1202) 169)

Triclosan
Phosphatidylinositol-containing liposome; Liposome; Drug targeting; Bactericide delivery (Jones, M.N. (1196) 57)

Trifunctional enzyme
Gastrin; Gastrin-binding protein; Enoyl-CoA hydratase; 3-Hydroxyacyl-CoA dehydrogenase (Zhang, Q.-X. (1219) 567)

Trihydroxybenzene
Anaerobic degradation; Molybdoenzyme; Phloroglucinol pathway; Transhydroxylase; (*P. acidigallici*) (Reichenbecher, W. (1204) 217)

Triiodothyronine
Nitrofen; T_3 receptor; Development; Hypoplasia; (Human lung) (Brandsma, A.E. (1201) 266)

Trimethoprim
Antifolate binding; Microcalorimetry; Methotrexate; Trimetrexate (Sasso, S.P. (1207) 74)

Trimethylaminopentanetetrol
Tetraether lipid; Diether lipid; Structure; Dimethylaminopentanetetrol; (*M. hungatei*) (Sprott, G.D. (1214) 234)

Trimethyllysine
Calmodulin; Calmodulin *N*-methyltransferase; Protein methylase III; Protein methylation; (*Paramecium*) (Pech, L.L. (1199) 183)

Trimetrexate
Antifolate binding; Microcalorimetry; Methotrexate; Trimethoprim (Sasso, S.P. (1207) 74)

Triose phosphate
Adenylate; 3-Phosphoglycerate; Cell fractionation; Chloroplast; Photosynthetic induction; (Barley leaf) (Gardeström, P. (1183) 327)

Tripeptide
Lung; Membrane transport; (Rat) (Helliwell, P.A. (1190) 430)

Triple helix
YYR triplex; Distamycin; Mithramycin; DNAase footprinting (Stonehouse, T.J. (1218) 322)

Triplet
Fluorescence detected magnetic resonance; FDMR; Photosystem; Chlorophyll; P680 (Carbonera, D. (1185) 167)

Triplet repeat expansion
Dynamic mutation; PCR; PCR instability; TATA-binding protein (Holstege, F.C.P. (1219) 157)

Triplet state
Photosystem II; Cytochrome *b*-559 complex; D1/D2-cytochrome complex; Absorption detected magnetic resonance; Photoinhibition (Angerhofer, A. (1188) 35)

Hematoporphyrin; Photosensitization; Singlet oxygen; Vicinal water (VanSteveninck, J. (1201) 23)

Triplet transfer
Light harvesting complex II; Aggregation; Carotenoid; Absorbance-detected magnetic resonance; (Spinach) (Van der Vos, R. (1188) 243)

Tris-Photosystem II
Tyrosine D^+; Tyrosine Z^+; Photosystem II; EPR; ENDOR; Motional broadening (Mino, H. (1185) 213)

Triterpenoid
Squalene-hopene cyclase; Hopanoid; Tetrahymanol; (*Rh. palustris*) (Kleemann, G. (1210) 317)

Triton X-100
Liposome; Solubilization; Phosphatidylcholine; Cholesterol; Enzymatic method (Nagayasu, A. (1194) 12)

***trkA* gene**
Homolog; Archaebacterium; (*M. mazei*) (Macario, A.J.L. (1216) 495

Potassium ion transport; Potassium ion-translocating gene; DNA sequence; (Marine bacterium); (*V. alginolyticus*) (Nakamura, T. (1219) 701)

tRNA operon
rRNA gene, 5S; Promoter; Sequence; (Lactic acid bacterium) (Nilsson, D. (1219) 141)

trnM
Photosystem II; Cytochrome; *psbE*; *psbF*; Green alga; Chloroplast genome; (*Chlamydomonas reinhardtii*) (Alizadeh, S. (1188) 439)

Trophoblast
Microvillous membrane; Basal membrane; Alkaline phosphatase; (Human placenta) (Eaton, B.M. (1193) 85)

Folate receptor; Isoform identity; Choriocarcinoma cell; (Human placenta) (Prasad, P.D. (1223) 71)

Tropolone
Glutathione; Glyoxalase; Malaria; (*P. falciparum*) (Barnard, J.F. (1208) 127)

Troponin
Calcium binding; Fluorescence; ATPase; (Skeletal muscle) (Liou, Y.-M. (1202) 92)

Contractile protein; cDNA sequence (Zhu, L. (1217) 338)

TRP-2
DOPAchrome tautomerase; cDNA; Melanin (Yokoyama, K. (1217) 317)

TRS/ingi
Retroposon; Reverse transcriptase; (*Trypanosoma brucei*) (Glauser, A. (1218) 99)

Trypanothione reductase
Substrate analogue; Kinetic analysis; Glutamyl binding site; Enzyme modification; (*C. fasciculata*); (*T. congolense*) (El-Waer, A.F. (1203) 93)

Trypsin
Photosynthesis; Membrane protein; Polypeptide, 22 kDa; Western blot (Kim, S. (1188) 339)

FTIR; Calcium; Electrostatic interaction; Amidine (Buono, R.A. (1204) 124)

Heparin; Inactivation; (Bovine) (Finotti, P. (1207) 80)

Trypsin/chymotrypsin inhibitor
Protein sequence; Positional identity; Kunitz-type inhibitor; P_1 site; (Giant taro (*A. macrorrhiza*)) (Argall, M.E. (1204) 189)

Trypsin inhibitor
Urinary bikunin; Charge isomer; Glycosaminoglycan; Chondroitin sulfate (Yuki, Y. (1203) 298)

Amino acid sequence; Eglin; Potato inhibitor I; Subtilisin inhibitor; (*A. caudatus*) (Hejgaard, J. (1204) 68)

Proteinase inhibitor; tPA inhibitor; Gene synthesis; (*Erythrina*) (Teixeira, A.V. (1217) 16)

Serine proteinase inhibitor; Protein structure/function; (*Erythrina*) (Teixeira, A.V. (1217) 23)

ε-Trypsin
Autolysis; Crystal structure; Electron density map; Activity; (Porcine) (Huang, Q. (1209) 77)

Trypsinogen activation
Aspergillopepsin I; Aspartic proteinase; Specificity; (*Aspergillus*) (Shintani, T. (1204) 257)

Tryptic digestion
Gastric lipase; Monoclonal antibody; Disulfide bridge; Domain structure (Aoubala, M. (1213) 319)

β-Adrenergic receptor; Guanine nucleotide-binding regulatory protein; Adenylate cyclase; Partial hepatectomy; (Rat hepatocyte) (Yagami, T. (1222) 81)

Tryptophan
Nitrite reductase; Ferredoxin-dependent enzyme; Electron transfer (Hirasawa, M. (1187) 80)

Myosin-ATP; Photochemical modification; Trichloroethanol (Papp, S.J. (1202) 169)

γ-Crystallin; β_s-Crystallin; Fluorescence quenching; Microenvironment (Augusteyn, R.C. (1205) 89)

Cytochrome-*c* oxidase; Time-resolved fluorescence; Protein conformation; (Bovine heart) (Das, T.K. (1209) 227)

Tryptophan fluorescence
Time-resolved fluorescence; Fluorescence quenching; Lyme disease; Outer surface protein A; Alpha helix (France, L.L. (1202) 287)

Tryptophan residue
Phospholipase A_2; Enzyme modification; (Snake venom) (Chang, L.-S. (1202) 216)

Cu^{2+} catalyzed lipid peroxidation; Apolipoprotein–lipid association; Apo HDL; Apo B (Shoukry, M.I. (1210) 355)

L-Tryptophan aminotransferase
Indolepyruvate decarboxylase; Indole-3-acetic acid; Thiamine diphosphate; (*E. cloacae*) (Koga, J. (1209) 241)

TSST-1
Metallothionein; IL-6 (Choudhuri, S. (1225) 171)

Tubular morphogenesis
Microvascular endothelium; Transforming growth factor beta; Chondrocyte; (Human) (Tada, K. (1201) 135)

Tubulin
Microtubule; Microtubule-associated protein; Protein purification; (Sea urchin) (Maekawa, S. (1207) 194)

Refolding; Immunoaffinity chromatography; *gro*EL; Chaperone protein (Phadtare, S. (1208) 189)

DNA; Nuclear protein; High Mobility Group protein 1; Interaction (Briolay, A. (1219) 39)

α-Tubulin
Cytoskeleton; Lens; Intermediate filament; β-Tubulin; Cephalopod (Tomarev, S.I. (1216) 245)

β-Tubulin
Cytoskeleton; Lens; Intermediate filament; α-Tubulin; Cephalopod (Tomarev, S.I. (1216) 245)

Tumor
Myoglobin; Hyperthermia; NMR; Thermometry (Chung, Y. (1226) 31)

Putrescine; Uptake; Brush-border membrane; Small intestine; Polyamine; (Rat tissue) (Brachet, P. (1227) 161)

Tumor associated antigen
Natural killer cell; Aminopeptidase; Cytotoxicity; Ectoenzyme; Immunology (Amoscato, A.A. (1221) 221)

Tumor cell line
Glutathione transferase; Enzyme-linked immunosorbent assay; Blood plasma (Hao, X.-Y. (1225) 223)

Tumor histopathology
NMR, ^{1}H-; NMR, ^{31}P-; (Human); (Liver) (Bell, J.D. (1225) 71)

Tumor invasion
Cathepsin B; Cystatin C; Neutrophil elastase; Colon (Keppler, D. (1226) 117)

Tumor necrosis factor
Promoter; Transcription factor; (Human) (Krämer, B. (1219) 413)

Tumor necrosis factor α
Cartilage; ATP, extracellular; Interleukin 1; P_2-purinoceptor; Transforming growth factor-β (Leong, W.S. (1201) 298)

HETEs; Leukotriene B_4; Polymorphonuclear neutrophil; Platelet-activating factor; ATP (O'Flaherty, J.T. (1201) 505)

Immunomodulatory peptide; Cytotoxicity; Interleukin 1; Lymphomononuclear cell; Monocyte; (Human) (López-Moratalla, N. (1221) 153)

Tumor promoter
Thapsigargin; Calcium ion entry; Myosin light chain kinase; Wortmannin; (Human platelet) (Hashimoto, Y. (1220) 37)

Platelet exocytosis; Aggregation; Protein kinase C; (Platelet cell); (Human) (Hashimoto, Y. (1222) 56)

Nucleus; Radical; Peroxide; EPR; DNA (Greenley, T.L. (1226) 56)

Tumor suppressor gene
Retinoblastoma; Cancer gene (Feinstein, R. (1218) 82)

catalytic RNA; Synthetic oligoribonucleotide; Hairpin structure; Mutant RNA; Circular dichroism; RNA; (Bacteriophage) (Hosaka, H. (1218) 351)

Tumor treatment
Cell electropermeabilization; Tissue electropermeabilization; Electroporation; Bleomycin; Electrochemotherapy (Belehradek Jr., J. (1190) 155)

Tunicamycin
Sodium ion/glucose cotransport; Glucose transport; Phlorizin; Apical membrane; (LLC-PK_1 kidney epithelial cell) (Wu, J.-S.R. (1192) 289)

Turbot
Astrocyte; Primary culture; Prostaglandin; Polyunsaturated fatty acid (Bell, J.G. (1211) 335)

Two-dimensional gel electrophoresis
Heat shock; Heat shock protein; Regulon; (*E. coli*) (Peruski Jr., L.F. (1207) 165)

Protein kinase C substrate; Protein kinase inhibitor; Phorbol ester; Staurosporine; Anterior pituitary gland; (Rat) (Simpson, J. (1220) 69)

Two-phase separation
Bile acid transport system; Binding protein; Cyclosomatostatin; EDTA extraction; (Rat liver) (Wenzel, U. (1193) 17)

TxA_2/PGH_2 receptor
Plasmenylethanolamine; Platelet; (Human) (Turini, M.E. (1213) 21)

Type 1 diabetes
Islet cell autoantigen; Molecular cloning; Autoimmunity; Autoreactive T cell (Miyazaki, I. (1227) 101)

Type I collagen
Retinoic acid; Fibroblast; (Human lung) (Krupsky, M. (1219) 335)

Type II cell
Lung development; Surfactant; Endocytosis (Kresch, M.J. (1210) 167)

Vitamin D; Proliferation; PDGF; Alveolar epithelium (Edelson, J.D. (1221) 159)

Type IV collagenase
Gelatinase; Amniotic fluid protein; (Human) (Lehtovirta, J. (1206) 83)

Type-1 plasminogen inhibitor
Urokinase; Tissue-type plasminogen activator, t-PA; Milk; Casein; Urokinase receptor; t-PA binding (Heegaard, C.W. (1222) 45)

Type 1 receptor
Angiotensin II; (Rat AT_{1B}) (Guo, D.-F. (1218) 91)

Type 2 receptor
Angiotensin II; cDNA; Genomic DNA sequence; (Mouse) (Ichiki, T. (1189) 247)

Tyrosinase
Melanin; Enkephalin; Enkmelanins; Opioid peptides; Opiomelanins (Rosei, M.A. (1199) 123)

Catechol; Catechol estrogen; Enzyme mechanism; 2-Hydroxyestradiol; Organic media (Jacobsohn, G.M. (1202) 317)

Melanin; Biosynthesis; Melanogenesis; Enzyme kinetics; Reaction mechanism; Metabolic pathway (Ros, J.R. (1204) 33)

Enzyme kinetics; Enzyme inactivation; Suicide substrate; α-Methyldopa; Catechol; L-Dopa (Moreno, M.G. (1205) 282)

Enkephalin; Mass spectrometry; Receptor affinity (Larsimont, V. (1222) 95)

Tyrosinate charge-transfer complex, copper
dUTPase; Tyrosine modification; Nitrotyrosine spectral titration; Copper-tyrosinate charge-transfer complex; (*E. coli*) (Vertessy, B.G. (1205) 146)

Tyrosine-64
Myoglobin; Site-specific mutagenesis; EXAFS; Heme iron ligand; (Horse heart) (Tang, H.-L. (1206) 90)

Tyrosine
Tyrosinemia; Fumarylacetoacetate hydrolase; Gene organization; Mutation (Awata, H. (1226) 168)

Tyrosine D
Photosystem II; Structural organization; Tyrosine Z; EPR, pulsed (Astashkin, A.V. (1187) 89)

Tyrosine-D
Photosystem II; Oxygen evolution; Water-oxidizing complex; Chloride ion depletion; Manganese cluster (Deák, Z. (1185) 65)

Tyrosine D^+
Tyrosine Z^+; Tris-Photosystem II; Photosystem II; EPR; ENDOR; Motional broadening (Mino, H. (1185) 213)

Photosystem II; EPR, pulsed; Hole burning; Oxygen-evolving center; Quinone iron (Kodera, Y. (1186) 91)

Tyrosine hydroxylase
Bacterial expression; Catalytic domain; Deletion mutagenesis (Walker, S.J. (1206) 113)

Tyrosine kinase
p21*ras*; Activating signal; Cell regulation (Pronk, G.J. (1198) 131)

Phosphatidylinositol 3,4-bisphosphate; Phosphatidylinositol 3-kinase; (Human platelet) (Yatomi, Y. (1212) 337)

Insulin receptor; Co-transfection; Insulin resistance; COS 7 cell; (Human) (Maegawa, H. (1216) 425)

Insulin; Insulin receptor; Phosphorylation; Mitogenesis (Levy-Toledano, R. (1220) 1)

Endotoxin; Cellular receptor; Signal transduction; Retroviral vector; (Mouse) (LeGrand, C.B. (1223) 36)

Tyrosine kinase inhibitor
Calcium ion uptake; Histamine release; Basophilic leukemia cell; Antigen stimulation; (Rat) (Teshima, R. (1221) 37)

Tyrosinemia
Fumarylacetoacetate hydrolase; Gene organization; Mutation; Tyrosine (Awata, H. (1226) 168)

Tyrosine modification
dUTPase; Nitrotyrosine spectral titration; Copper-tyrosinate charge-transfer complex; Tyrosinate charge-transfer complex, copper; (*E. coli*) (Vertessy, B.G. (1205) 146)

Tyrosine phosphorylation
Phospholipase D; Linoleic acid; Phorbol ester; Epidermal growth factor receptor; (CHO cell) (Dunlop, M. (1220) 43)

Respiratory burst; Macrophage; Phorbol myristate acetate; Signal transduction (Green, S.P. (1222) 241)

β-Glucan; Macrophage; Oxidative burst; Phospholipase A_2 (Goldman, R. (1222) 265)

src kinase; Signal transduction; Mass spectroscopy (Amrein, K.E. (1222) 441)

Tyrosine radical
Photosystem II; ENDOR; Oxygen evolving complex (Rigby, S.E.J. (1188) 318)

Tyrosine Z
Photosynthesis; Photovoltage; Photosystem II (Pokorny, A. (1184) 65)

Photosystem II; Oxygen evolving complex; Proton release; Electrochromism (Rappaport, F. (1184) 178)

Photosystem II; Structural organization; Tyrosine D; EPR, pulsed (Astashkin, A.V. (1187) 89)

Tyrosine Z^+
Tyrosine D^+; Tris-Photosystem II; Photosystem II; EPR; ENDOR; Motional broadening (Mino, H. (1185) 213)

U

U-937
Phospholipase D; Lipopolysaccharide-mediated; Phorbol ester; Signal transduction; Monocytic leukemic cell line; THP-1 (Natarajan, V. (1213) 14)

Gene expression; Lipopolysaccharide; Probucol; Interleukin 1; Platelet-derived growth factor; Reverse transcription-polymerase chain reaction (Li, S.-R. (1225) 271)

U-46619
Thrombocyte; Platelet; Icosanoid; Platelet-activating factor; Leukotriene; Lipoxin; Thrombin; Fibrinogen; Hemostasis; (Rainbow trout); (*O. mykiss*) (Lloyd-Evans, P. (1215) 291)

U18666A
Cholesterol esterification; Cholesterol translocation; Steroid hormone; Lipid transfer; Leydig cell; Fibroblast; (Mouse); (Human) (Härmälä, A.-S. (1211) 317)

Ubiquinol cytochrome *c* oxidoreductase
Transcription regulation; Carbon catabolite repression; FPS1; QCR8; (*S. cerevisiae*); (*K. lactis*) (Mulder, W. (1219) 713)

Transcription regulation; Carbon catabolite regulation; QCR7; APA2; (*K. lactis*) (Mulder, W. (1219) 719)

Ubiquinol cytochrome *c* oxidoreductase complex
Protein processing; Precursor protein; Mitochondrial processing peptidase; Protein import (Eriksson, A.C. (1186) 221)

Ubiquinol oxidation
Mitochondrion; Oxidant-induced reduction; Electron transport inhibition; Cytochrome *b*; QSAR; (*R. rubrum*) (Oettmeier, W. (1188) 125)

Ubiquinone
NADH:ubiquinone reductase; Complex I; Proton pumping; Respiratory inhibitor (Degli Esposti, M. (1187) 116)

Mitochondrion; Respiration; Alternative oxidase; Oxidative phosphorylation; (Plant) (Moore, A.L. (1187) 145)

Complex I; MPP^+; NADH dehydrogenase; NADH-Q oxidoreductase; Q_{10}; Piericidin A; Rotenone (Singer, T.P. (1187) 198)

Cholesterol; Dolichol; Prenylated protein (Grünler, J. (1212) 259)

Cholesterol; Dolichol; Li, d peroxidation (Jakobsson-Borin, Å. (1213) 159)

Squalestatin 1; Squalene synthase; Dolichol; Cholesterol; Protein isoprenylation (Thelin, A. (1215) 245)

Ubiquinone biosynthesis
Polyprenyl transferase; Polyprenyldiphosphate; (*E. coli*) (Melzer, M. (1212) 93)

Ubiquinone pool (Q-pool)
Alternative oxidase; Cyanide-resistant respiration; Oxygen dependence; Electron transfer (Ribas-Carbo, M. (1188) 205)

Ubiquitin
Calcium-binding protein; Duodenum; Calcium transport; Small intestine; (Rat) (Hubbard, M.J. (1200) 191)

Hexokinase; Protein turnover; Hexokinase compartimentation (Magnani, M. (1206) 180)

Genome; Intergenic region; Ribosomal gene, 5S; rRNA cluster; (*T. pyriformis*) (Guerreiro, P. (1216) 137)

arom protein; Expression; Purification; Domain; (Yeast) (Graham, L.D. (1216) 417)

Fusion protein; Nucleotide sequence; cDNA; (*Acanthamoeba*) (Ahn, K.-S. (1218) 109)

Histone; Core particle; Nucleosome (Davies, N. (1218) 187)

Nucleotide sequence; (Rat) (Hayashi, T. (1218) 232)

Ubisemiquinone
NADH:Q oxidoreductase; Energy coupling; Pre-steady-state kinetics; Fe-S cluster; (Bovine heart mitochondria) (De Jong, A.M.Ph. (1186) 163)

UDPglucuronosyltransferase
Photoaffinity labeling; Nucleotide sugar transport (Radominska, A. (1195) 63)

Photoaffinity labeling; Inhibitor; Bile acid; Glucuronidation; (Rat liver) (Radominska, A. (1205) 336)

Glutathione *S*-transferase; Small intestine; (Rat) (Dannenberg, A.J. (1210) 8)

UDPglucuronosyltransferase (UGT)
Bile acid; Glucuronidation; cDNA; (Rat liver) (Radominska, A. (1205) 75)

UDPG-pyrophosphorylase
Trehalose; *Saccharomyces cerevisiae*; Heat shock; Phosphoglucomutase; Hexokinase (Ribeiro, M.J.S. (1200) 139)

UDP-sugar
Chondroitin sulfate; Keratan sulfate; Oxygen tension (Ysart, G.E. (1221) 15)

Ultracentrifugation
Bile salt; Cholesterol crystal; Freeze fracture electron microscopy; Hydrophobicity index; Vesicle morphology (Van de Heijning, B.J.M. (1212) 203)

Ultrafast laser spectroscopy
Energy transfer; Excitation energy transfer; Photosynthesis; Light harvesting; Carotenoid; Polarized light spectroscopy; (Bacteria) (Van Grondelle, R. (1187) 1)

Ultramicroelectrodes
Dielectrophoresis; Electrorotation; Semiconductor technology; Animal/plant cells; Transmembrane potential (Fuhr, G. (1201) 353)

Ultra thin-section
Vesicle self-assembly in vitro; Cholate dialysis; Homogeneous single-walled vesicle; Size increase; ATPase, Na^+/K^+-; Multilayer; Carboxyfluorescein (Volet, B. (1191) 1)

Ultraviolet
Photosystem II; Oxygen evolution; Proton release; Absorption transient at 320 nm; pH dependence (Lübbers, K. (1183) 210)

Butylphenyldeoxyguanosine (BuPGdR); Aphidicolin; DNA repair; DNA polymerase; Alkaline sucrose density gradient centrifugation; (Human fibroblast) (Yamada, K. (1219) 302)

Ultraviolet-B
ATPase, CF_0F_1-; Cytochrome *bf* complex; Gene expression; (*P. sativum*) (Zhang, J. (1185) 295)

Ultraviolet cross-linking
DNA unknotting; DNA topoisomerase II; ATP binding; (Thermophilic archaebacterium) (Assairi, L.M. (1219) 107)

Ultraviolet damage
DNA repair, subcellular; Supercoiled DNA; Oxidative damage (Collins, A.R. (1219) 724)

Ultraviolet irradiation
PM_2 DNA; Supercoiling; Conformational transition (Peterson, C.A. (1216) 265)

Ultraviolet photolysis
Gramicidin; NMR, ^{129}Xe-; Transport; Blocking (McKim, S. (1193) 186)

Ultraviolet spectrophotometry
Acyl-CoA synthetase; Alkylthioacrylic acid (Wu, P. (1215) 87)

Ultraviolet spectroscopy
PAI-1; Serine proteinase inhibitor; Fluorescence spectroscopy; Circular dichroism; Protein conformation (Vaughan, D.E. (1202) 221)

UMR-106 cell
Endothelin; Parathyroid hormone; PLC inhibitor; Intracellular calcium; Inositol phosphate; PTX (Tatrai, A. (1224) 575)

uncG
ATPase, F_1F_0-; Subunit, γ-; Gene expression; Deletion analysis; (*E. coli*) (Angov, E. (1183) 499)

Uncoated vesicle
Clathrin; Endocytosis; Coated vesicle; Membrane fluidity; Fluorescence anisotropy; Diphenylhexatriene; Pyrene excimer (Liaubet, A. (1195) 164)

Uncoupled transport
Active transport; Co-transport mechanisms; Substrate binding force; Slippage (Krupka, R.M. (1183) 105)

Membrane transport; Vectorial coupling; Substrate binding force; ATPase; Molecular motor (Krupka, R.M. (1183) 114)

Cotransport; Mutation; Lactose permease; Calcium pump; Transport kinetics (Krupka, R.M. (1193) 165)

ATPase; Active transport; Coupling mechanism; Transport kinetics; Binding force (Krupka, R.M. (1193) 179)

Uncoupling
Fatty acid; Energy coupling; Oxidative phosphorylation; Decoupling; Adenine nucleotide translocase; Cation transport; Thermogenesis (Wojtczak, L. (1183) 41)

pH gradient; Light stress; Photoinhibition; Photophosphorylation; Proton uptake; (Chloroplast) (Tjus, S.E. (1183) 315)

Uncoupling protein
Brown adipocyte; C/EBPα; Glucose transporter; Dexamethasone; Cell differentiation; (Rat) (Shima, A. (1223) 1)

Unfolded state
Size-exclusion chromatography; Urea and alkylurea denaturation; Molten globule intermediate; Stefin, A and B (Žerovnik, E. (1209) 140)

Unfolding intermediate
Chaperonin; *Gro*EL; Folding; Guanidine hydrochloride; Fluorescence; Circular dichroism (Mizobata, T. (1209) 83)

Unilamellar bilayer vesicle
Glycosphingolipid; Ganglioside; Sulfatide; Phospholipase A_2; Monolayer (Maggio, B. (1190) 137)

Unisite catalysis
Chloroplast coupling factor; ATPase, Ca^{2+}-; Cooperativity; Alternating site; Data simulation (Andralojc, P.J. (1184) 54)

α,β-Unsaturated carbonyl compound
Glutathione *S*-transferase; Enzyme inhibition; Glutathione; (Rat) (Chien, C.-i. (1204) 175)

Unsaturated chain
Lipid hydration; Differential scanning calorimetry; Phase diagram; Dioleoylphosphatidylcholine bilayer; Freezing point depression; Hydration force (Ulrich, A.S. (1191) 225)

Unsaturated lipid
Melittin; Calcein; Liposome; Lipid–peptide interaction; Lipid–protein interaction (Subbarao, N.K. (1189) 101)

Uptake
Proximal tubule; Primary culture; Zinc; Apical; Basolateral; Efflux; (Rabbit kidney cell) (Gachot, B. (1191) 291)

Phospholipid analog; Alkylphosphocholine; Madin-Darby kidney cell; Metabolism; (Canine) (Geilen, C.C. (1211) 14)

Putrescine; Brush-border membrane; Small intestine; Tumor; Polyamine; (Rat tissue) (Brachet, P. (1227) 161)

Uptake stimulating protein
DNA uptake; Oligonucleotide uptake; DNA receptor; (*N. crassa*) (Tóth, G. (1219) 314)

Urea and alkylurea denaturation
Size-exclusion chromatography; Unfolded state; Molten globule intermediate; Stefin, A and B (Žerovnik, E. (1209) 140)

Urea binding
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Urea flux
Erythrocyte; Benzene sulfonate; Band 3; Anion exchange protein; Anion transport inhibitor; Water flux (Toon, M.R. (1193) 276)

Uridine binding site
Uridine phosphorylase; Selective modification; Fluorescein 5′-isothiocyanate; (*E. coli*) (Komissarov, A.A. (1205) 54)

Uridine phosphorylase
Uridine binding site; Selective modification; Fluorescein 5′-isothiocyanate; (*E. coli*) (Komissarov, A.A. (1205) 54)

Urinary bikunin
Trypsin inhibitor; Charge isomer; Glycosaminoglycan; Chondroitin sulfate (Yuki, Y. (1203) 298)

Urinary bladder
Arachidonic acid; Vasopressin; Hydroosmosis; (Frog) (Firsov, D.L. (1220) 305)

Urinary trypsin inhibitor
Cell proliferation; Proteinase inhibitor; Mitogen; Growth inhibitor; Cell-surface proteinase; (Human) (Perry, J.K. (1221) 145)

Urine
Heparan sulfate; Glycosaminoglycan; Proteoglycan; Mucopolysaccharidosis (Van de Lest, C.H.A. (1201) 305)

Urodilatin
NMR, ^{1}H-; Nuclear Overhauser effect; Natriuretic peptide (Weber, J. (1207) 231)

Urokinase
5,6-*trans*-Prostaglandin E_2; Plasminogen activation; Streptokinase; Fibrinolysis (Urano, T. (1205) 258)

Tissue-type plasminogen activator, t-PA; Type-1 plasminogen inhibitor; Milk; Casein; Urokinase receptor; t-PA binding (Heegaard, C.W. (1222) 45)

Heymann nephritis; Plasminogen; Gp330; Autoantibody (Kanalas, J.J. (1225) 101)

Urokinase receptor
Urokinase; Tissue-type plasminogen activator, t-PA; Type-1 plasminogen inhibitor; Milk; Casein; t-PA binding (Heegaard, C.W. (1222) 45)

Urokinase type plasminogen activator
Plasminogen activator inhibitor type 1; Heparin; Heparan sulfate (Urano, T. (1201) 217)

Urotensin II
2D-NMR; Distance geometry; Dodecapeptide hormone; Dynamical simulated annealing; Solution conformation (Bhaskaran, R. (1199) 115)

Ursodeoxycholic acid
Cholesterol crystal observation time; Cholesterol saturation index; Cholesterol monohydrate crystal; Chenodeoxycholic acid (Corradini, S.G. (1214) 63)

U6 snRNA
Echinoderm; snRNA; (Sea urchin) (Sakallah, S.A. (1218) 439)

UsnRNA
Gene expression; Protoplast; Pseudogene; (Maize) (Leader, D.J. (1219) 145)

dUTPase
Tyrosine modification; Nitrotyrosine spectral titration; Copper-tyrosinate charge-transfer complex; Tyrosinate charge-transfer complex, copper; (*E. coli*) (Vertessy, B.G. (1205) 146)

5′-UTR
PDGF-A; Gene regulation; Post-transcription (Takimoto, Y. (1222) 511)

UVB
Photoinhibition; Photosystem II; D1-protein; Thylakoid (Friso, G. (1184) 78)

UV light
Intracellular Ca^{2+} concentration; TiO_2; T24 cell; Fura-2; Photo-dynamic therapy (Sakai, H. (1201) 259)

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Vacuolar H^+-ATPase
ATPase, H^+-; Insect midgut; cDNA cloning; (*M. sexta*) (Gräf, R. (1190) 193)

Vacuolar membrane
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Vacuole
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Trehalase; Cytosol; Enzyme activity; Growth cycle; (Yeast); (*S. cerevisiae*) (San Miguel, P.F. (1200) 155)

Valinomycin
Nitrendipine; Sarcoplasmic reticulum; ATPase, Ca^{2+}-; Calcium ion transport; Ionophore; (Rat) (Beeler, T.J. (1189) 189)

P-glycoprotein; Glycoprotein; Gramicidin D; Ionophore; Chemosensitizer; Cation efflux (Loe, D.W. (1190) 72)

Neuron differentiation; Potassium ion ionophore; Nigericin; Nerve growth factor; (Pheochromocytoma cell); (Rat) (Harada, H. (1220) 310)

Vanadate
ATPase, Na^+/K^+-; Sodium pump; Sodium/potassium pump; Cation transport; Protomer interaction (Sachs, J.R. (1193) 199)

Vanadate oligomer
ATPase, Ca^{2+}-; Sarcoplasmic reticulum; (Rabbit skeletal muscle) (Aureliano, M. (1221) 259)

Vanadyl oxidation
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Vascular endothelial cell
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Vascular endothelial growth factor
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Immortal fibroblast; Conditioned medium (Sugihara, T. (1224) 365)

Vascular permeability factor
Vascular endothelial growth factor; Serum level; ELISA; (Human) (Kondo, S. (1221) 211)

Vascular smooth muscle
Nitric oxide; Nitric oxide syntase; cDNA; Cloning; Cytokine; (Rat) (Geng, Y.-j. (1218) 421)

Adenylyl cyclase; Guanine nucleotide regulatory protein; Hypertension; Membrane; (Milan rat) (Clark, C.J. (1225) 149)

Vascular smooth muscle cell
Protein kinase C inhibition; (+)-α-Tocopherol; Cell proliferation inhibition (Boscoboinik, D.O. (1224) 418)

Vasoactive intestinal peptide (VIP)
VIP receptor; G protein; Adenylyl cyclase; (Human liver) (Rodríguez-Henche, N. (1221) 193)

Vasoactive intestinal polypeptide
Lipid bilayer; Amphipathic peptide (Noda, Y. (1191) 324)

Vasodilator drug
Papaverine; Micelle; Interaction; Surfactant; NMR (Yushmanov, V.E. (1189) 74)

Vasopressin
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Hepatocyte; Calcium ion inflow; Gadolinium; SK&F 96365; (Rat) (Fernando, K.C. (1222) 383)

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VDAC
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VDAC modulator
VDAC; Mitochondrion; Membrane channel; Protein purification; Intermembrane space; (Calf); (*N. crassa*) (Liu, M.Y. (1185) 203)

Vectorial coupling
Membrane transport; Substrate binding force; ATPase; Uncoupled transport; Molecular motor (Krupka, R.M. (1183) 114)

Velocity sedimentation
Reconstitution; Protein–protein interaction; Chemotaxis; G protein; Chemoattractant receptor (Bommakanti, R.K. (1209) 69)

Venom
Allergen; IgE-binding determinant; Identification; (*M. pilosula*) (Donovan, G.R. (1204) 48)

Platelet; Arachidonic acid; Phospholipase A_2; (Mammalian) (Mounier, C. (1214) 88)

Venom characterization
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Ventricular myocardium
Sarcoplasmic reticulum; ATPase, Ca^{2+}-; Cytosolic phosphorylation potential; Caffeine; Ryanodine; Pyruvate (Mallet, R.T. (1224) 22)

Verapamil
Alloxan; Calcium; Diabetes mellitus; Hydrogen peroxide (Kim, H.-R. (1227) 87)

Verapamil non-competitive inhibition
Multidrug resistance; THP-adriamycin; Anthracycline; Leukemia cell (Pereira, E. (1225) 209)

Very-long-chain fatty acid
Phospholipid transfer; Plasma membrane; Lipid accumulation (Moreau, P. (1194) 239)

Dietary fat; ($n-3$) Fatty acid; Diabetes; Rod outer segment; (Rat) (Suh, M. (1214) 54)

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ESEEM; Xanthine oxidase; 'Desulfo inhibited' EPR signal; EPR (Lorigan, G.A. (1185) 284)

Vesicle
Perfluoroalkylated phosphatidylcholine; Phospholipid; Liposome; Fluorinated liposome; Membrane; Polymorphism (Santaella, C. (1190) 25)

Surface activity; Phospholipid; Sonication; SUV (Qiu, R. (1191) 343)

Liposome; Phosphatidic acid; NMR, ^{31}P-; Electron microscopy (Swairjo, M.A. (1191) 354)

Liposome; Phospholipid; Bilayer; Freezing; Thawing; Cryobiology (MacDonald, R.C. (1191) 362)

Merocyanine 540; Phosphatidylcholine; Cholesterol; Photoisomerization; Microviscosity (Onganer, Y. (1192) 27)

Hepatitis B surface antigen; Reconstitution; Acidic phospholipid (Gómez-Gutiérrez, J. (1192) 45)

Perfluoroalkylated phosphatidylcholine; Phospholipid; Fluorinated liposome; Membrane; Permeability (Frézard, F. (1192) 61)

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Glucose/proton symporter; Cytochrome-*c* oxidase; (*Chlorella*) (Opekarová, M. (1194) 149)

Choline; Placental; Transport (Grassl, S.M. (1194) 203)

Lipid membrane; Self-assembled lipid bilayer; Langmuir-Blodgett film; Surface plasmon resonance (Salamon, Z. (1195) 267)

Phospholipid; Chromate; Carboxyfluorescein; Protonation; Leakage (Whitburn, K.D. (1214) 243)

Lecithin species; Nucleation time; Cholesterol gallstone (Tazuma, S. (1215) 74)

Vesicle fusion
Lipid vesicle; Lipid mixing; (Archaeobacterium) (Relini, A. (1194) 17)

Near infrared surface plasmon spectroscopy; Supported membrane (Brink, G. (1196) 227)

Vesicle membrane
Lipase; Protein–membrane interaction; Polymerizable surfactant vesicle; Fluorescence anisotropy; Energy transfer (Mosmuller, E.W.J. (1189) 45)

Vesicle morphology
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Vesicle self-assembly in vitro
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Vesicle sidedness
Sodium–calcium ion exchange; Photoreceptor; Rod outer segment; Protein association; (Bovine) (Huppertz, B. (1189) 119)

Vesicle transport
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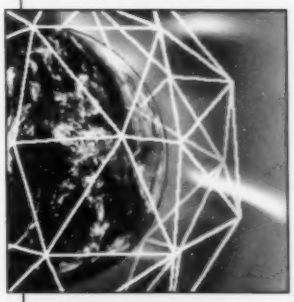

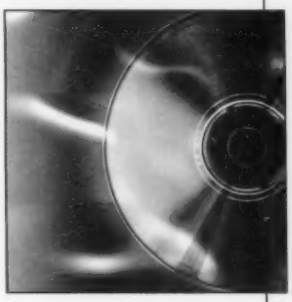

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